

**Academic Year  
Program Map  
MS of Applied Computer Science  
Software Development Track  
(those without a CS undergrad degree)**

| YEAR 1                               |         |  |                                   |         |
|--------------------------------------|---------|--|-----------------------------------|---------|
| TERM 1 - Fall                        |         |  | TERM 2 - Spring                   |         |
| Course                               | Credits |  | Course                            | Credits |
| CS 5251 – Web Technologies I         | 3       |  | CS 6252 – Web Technologies II     | 3       |
| CS 5311 – Program Construction I     | 3       |  | CS 6312 – Program Construction II | 3       |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
| SEMESTER TOTAL                       | 6       |  | SEMESTER TOTAL                    | 6       |
| Milestones                           |         |  | Milestones                        |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
| TERM 3 - Summer                      |         |  |                                   |         |
| Course                               | Credits |  |                                   |         |
| CS 6253 – Web Technologies III       | 3       |  |                                   |         |
| CS 6261 – Sys & Network Admin        | 3       |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
| SEMESTER TOTAL                       | 6       |  |                                   |         |
| Milestones                           |         |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
| YEAR 2                               |         |  |                                   |         |
| TERM 1 – Fall                        |         |  | TERM 2 - Spring                   |         |
| Course                               | Credits |  | Course                            | Credits |
| CS 5275 – Found. of Machine Learning | 3       |  | CS 6232 – Database II             | 3       |
| CS 6231 – Database I                 | 3       |  | CS 6242 – Software Development II | 3       |
| CS 6241 – Software Development I     | 3       |  | CS Elective                       | 3       |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
|                                      |         |  |                                   |         |
| SEMESTER TOTAL                       | 9       |  |                                   | 9       |

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| Academic Year<br>Program Map<br>MS of Applied Computer Science<br>Data Science Track<br>(those without a CS undergrad degree) |         |                                      |         |
|---|---------|--------------------------------------|---------|
| YEAR 1  |         |                                      |         |
| TERM 1 - Fall   |         | TERM 2 - Spring                      |         |
| Course  | Credits | Course                               | Credits |
| CS 5251 – Web Technologies I  | 3       | CS 5275 – Found. of Machine Learning | 3       |
| CS 5311 – Program Construction I  | 3       | CS 6252 – Web Technologies II        | 3       |
|   |         | CS 6312 – Program Construction II    | 3       |
|   |         |                                      |         |
|   |         |                                      |         |
|   |         |                                      |         |
| SEMESTER TOTAL  | 6       | SEMESTER TOTAL                       | 9       |
| Milestones  |         | Milestones                           |         |
|   |         |                                      |         |
| TERM 3 - Summer   |         |                                      |         |
| Course  | Credits |                                      |         |
| CS 6261 – Sys & Network Admin   | 3       |                                      |         |
|   |         |                                      |         |
|   |         |                                      |         |
|   |         |                                      |         |
|   |         |                                      |         |
|   |         |                                      |         |
| SEMESTER TOTAL  | 3       |                                      |         |
| Milestones  |         |                                      |         |
|   |         |                                      |         |
| YEAR 2  |         |                                      |         |
| TERM 1 – Fall   |         | TERM 2 - Spring                      |         |
| Course  | Credits | Course                               | Credits |
| CS 6231 – Database I  | 3       | CS 6800 – Data Analytics             | 3       |
| CS 6241 – Software Development I  | 3       | CS 6810 – Intell. & Analytic Tools   | 3       |
| CS 6820 – Generative AI for Data Sci.   | 3       | CS Elective                          | 3       |
|   |         |                                      |         |
|   |         |                                      |         |
|   |         |                                      |         |
| SEMESTER TOTAL  | 9       |                                      | 9       |

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|                                       |         |                                      |         |
|---------------------------------------|---------|--------------------------------------|---------|
| Academic Year                         |         |                                      |         |
| Program Map                           |         |                                      |         |
| MS of Applied Computer Science        |         |                                      |         |
| Cyber Intelligence Track              |         |                                      |         |
| (those without a CS undergrad degree) |         |                                      |         |
| YEAR 1                                |         |                                      |         |
| TERM 1 - Fall                         |         | TERM 2 - Spring                      |         |
| Course                                | Credits | Course                               | Credits |
| CS 5251 – Web Technologies I          | 3       | CS 5275 – Found. of Machine Learning | 3       |
| CS 5311 – Program Construction I      | 3       | CS 6252 – Web Technologies II        | 3       |
|                                       |         | CS 6312 – Program Construction II    | 3       |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
| SEMESTER TOTAL                        | 6       | SEMESTER TOTAL                       | 9       |
| Milestones                            |         | Milestones                           |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
| TERM 3 - Summer                       |         |                                      |         |
| Course                                | Credits |                                      |         |
| CS 6261 – Sys & Network Admin         | 3       |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
| SEMESTER TOTAL                        | 3       |                                      |         |
| Milestones                            |         |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
| YEAR 2                                |         |                                      |         |
| TERM 1 – Fall                         |         | TERM 2 - Spring                      |         |
| Course                                | Credits | Course                               | Credits |
| CS 6231 – Database I                  | 3       | CS 5500 – Cybersecurity              | 3       |
| CS 6420 – AI for Security             | 3       | CS 6241 – Software Development I     | 3       |
| CS 6430 – Adv Networking              | 3       | CS Elective                          | 3       |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
|                                       |         |                                      |         |
| SEMESTER TOTAL                        | 9       |                                      | 9       |

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|  |         |                                   |         |
|--|---------|-----------------------------------|---------|
| Academic Year<br>Program Map<br>MS of Applied Computer Science<br>Software Development Track<br>(those with a CS undergrad degree) |         |                                   |         |
| YEAR 1   |         |                                   |         |
| TERM 1 - Fall  |         | TERM 2 - Spring                   |         |
| Course   | Credits | Course                            | Credits |
| CS 5275 – Found. of Machine Learning   | 3       | CS 6232 – Database II             | 3       |
| CS 6241 – Software Development I   | 3       | CS 6242 – Software Development II | 3       |
|  |         | CS 6252 – Web Technologies II     | 3       |
|  |         |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
| SEMESTER TOTAL   | 6       | SEMESTER TOTAL                    | 9       |
| Milestones   |         | Milestones                        |         |
|  |         |                                   |         |
|  |         |                                   |         |
| TERM 3 - Summer  |         |                                   |         |
| Course   | Credits |                                   |         |
| CS 6253 – Web Technologies III   | 3       |                                   |         |
| CS 6261 – Sys & Network Admin  | 3       |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
| SEMESTER TOTAL   | 6       |                                   |         |
| Milestones   |         |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
| YEAR 2   |         |                                   |         |
| TERM 1 – Fall  |         | TERM 2 - Spring                   |         |
| Course   | Credits | Course                            | Credits |
| CS Elective  | 3       |                                   |         |
| CS Elective  | 3       |                                   |         |
| CS Elective  | 3       |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
|  |         |                                   |         |
| SEMESTER TOTAL   | 9       |                                   |         |

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|                                       |         |                                    |         |
|---------------------------------------|---------|------------------------------------|---------|
| Academic Year                         |         |                                    |         |
| Program Map                           |         |                                    |         |
| MS of Applied Computer Science        |         |                                    |         |
| Data Science Track                    |         |                                    |         |
| (those with a CS undergrad degree)    |         |                                    |         |
| YEAR 1                                |         |                                    |         |
| TERM 1 - Fall                         |         | TERM 2 - Spring                    |         |
| Course                                | Credits | Course                             | Credits |
| CS 5275 – Found. of Machine Learning  | 3       | CS 6252 – Web Technologies II      | 3       |
| CS 6241 – Software Development I      | 3       | CS 6800 – Data Analytics           | 3       |
| CS Elective                           | 3       | CS 6810 – Intell. & Analytic Tools | 3       |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
| SEMESTER TOTAL                        | 9       | SEMESTER TOTAL                     | 9       |
| Milestones                            |         | Milestones                         |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
| TERM 3 - Summer                       |         |                                    |         |
| Course                                | Credits |                                    |         |
| CS 6261 – Sys & Network Admin         | 3       |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
| SEMESTER TOTAL                        | 3       |                                    |         |
| Milestones                            |         |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
| YEAR 2                                |         |                                    |         |
| TERM 1 – Fall                         |         | TERM 2 - Spring                    |         |
| Course                                | Credits | Course                             | Credits |
| CS 6820 - Generative AI for Data Sci. | 3       |                                    |         |
| CS Elective                           | 3       |                                    |         |
| CS Elective                           | 3       |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
|                                       |         |                                    |         |
| SEMESTER TOTAL                        | 9       |                                    |         |

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|                                      |         |                               |         |
|--------------------------------------|---------|-------------------------------|---------|
| Academic Year                        |         |                               |         |
| Program Map                          |         |                               |         |
| MS of Applied Computer Science       |         |                               |         |
| Cyber Intelligence Track             |         |                               |         |
| (those with a CS undergrad degree)   |         |                               |         |
| YEAR 1                               |         |                               |         |
| TERM 1 - Fall                        |         | TERM 2 - Spring               |         |
| Course                               | Credits | Course                        | Credits |
| CS 5275 – Found. of Machine Learning | 3       | CS 5500 – Cybersecurity       | 3       |
| CS 6241 – Software Development I     | 3       | CS 6252 – Web Technologies II | 3       |
| CS 6430 – Adv Networking             | 3       | CS Elective                   | 3       |
|                                      |         |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
| SEMESTER TOTAL                       | 9       | SEMESTER TOTAL                | 9       |
| Milestones                           |         | Milestones                    |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
| TERM 3 - Summer                      |         |                               |         |
| Course                               | Credits |                               |         |
| CS 6261 – Sys & Network Admin        | 3       |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
| SEMESTER TOTAL                       | 6       |                               |         |
| Milestones                           |         |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
| YEAR 2                               |         |                               |         |
| TERM 1 – Fall                        |         | TERM 2 - Spring               |         |
| Course                               | Credits | Course                        | Credits |
| CS 6420 – AI for Security            | 3       |                               |         |
| CS Elective                          | 3       |                               |         |
| CS Elective                          | 3       |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
|                                      |         |                               |         |
| SEMESTER TOTAL                       | 9       |                               |         |

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