CURRICULUM FOR MASTER OF SCIENCE

**COMPUTER SCIENCE**

# *32 Hours Required for Graduation*

Name: UNM ID#

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| MATHEMATICAL METHODS | | | | |
| Course # ***Required B- or better*** | Cr  Gr |  | Grade | Sem/Yr  Gr |
| CS 500: Intro Theory of Computation | 3 |  |  |
| CS 530: Geometric & Probabilistic Methods | 3 |  |  |
| CS 550: Prog. Languages & Systems | 3 |  |  |
| CS 558: Software Foundations | 3 |  |  |
| CS 561: Algorithms/Data Structure | 3 |  |  |

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| EMPIRICAL METHODS | | | | |
| Course # *Required B- or better* | Cr  Gr |  | Grade | Sem/Yr  Gr |
| CS 512: Intro Comp Graphics/Adv. Image Synthesis | 3 |  |  |
| CS 522: Digital Image Processing | 3 |  |  |
| CS 523: Complex Adaptive Systems | 3 |  |  |
| CS 527: Principles of Artificially Intelligent Machines | 3 |  |  |
| CS 529: Introduction to Machine Learning | 3 |  |  |
| CS 547: Neural Networks | 3 |  |  |  |

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| ENGINEERING/SYSTEM BUILDING METHODS | | | | |
| Course # *Required B- or better* | Cr  Gr |  | Grade | Sem/Yr  Gr |
| CS 554: Compiler Construction | 3 |  |  |
| CS 580: Specification of Software Systems | 3 |  |  |
| CS 585: Computer Networks | 3 |  |  |
| CS 587: Advanced Operating Systems | 3 |  |  |
| Add’l course: CS 542: Intro to Parallel Processing | 3 |  |  |
| Add’l course: CS 544: Intro to Cybersecurity | 3 |  |  |
| Add’l course: CS 564: Intro to Database Mgmt. | 3 |  |  |  |
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| CS ELECTIVES or 3-6crhrs GRADUATE COURSES\* | | | | |
| \*w/CS faculty approval related to CS from outside the department | | | | |
| Course # | Cr  Gr |  | Grade | Sem/Yr  Gr |
| Elective CS or Grad Credit: | 3 |  |  |
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| CS ELECTIVES or THESIS RESEACH | | | | |
| Course # | Cr  Gr |  | Grade | Sem/Yr  Gr |
| CS 599 or Elective CS: | 3 |  |  |
| CS 599 or Elective CS: | 3 |  |  |  |

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| COLLOQUIUM | | | | |
| Course # | Cr  Gr |  | Grade | Sem/Yr  Gr |
| CS 592: Colloquium | 1 |  |  |
| CS 592: Colloquium | 1 |  |  |  |

LJC: CS MS 2nd Sheet rev. Apr. 2025