



KEAN UNIVERSITY

Nathan Weiss Graduate College

Masters of Science in Computer Information Systems

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CORE COURSES – 15 CREDITS

CPS 5100	Computer Information Systems	3 credits
CPS 5301	Software Engineering	3 credits
CPS 5440	Advanced Analysis of Algorithms	3 credits
CPS 5740	Database Systems	3 credits
CPS 5981	Software Assurance	3 credits

ELECTIVES – 12 CREDITS

CPS 5498	Digital Forensics and Investigation	3 credits
CPS 5500	Web Design and Development	3 credits
CPS 5601	Human Computer Interaction	3 credits
CPS 5721	Data Mining	3 credits
CPS 5745	Interactive Information visualization	3 credits
CPS 5801	Artificial Intelligence and Expert Systems	3 credits
CPS 5802	Machine Learning Innovation	3 credits
CPS 5881/2	Independent Graduate Study in Computer Science	3 credits
CPS 5900	Numerical Analysis	3 credits
CPS 5910	Computer Simulations of Models	3 credits
CPS 5930	Operating System Concepts	3 credits
CPS 5931	Network Systems	3 credits
CPS 5960	Operations Research: Models and Algorithms	3 credits
CPS 5965	High Performance Computing	3 credits
CPS 5990	Special Topics	3 credits

CAPSTONE – 3 CREDITS

CPS 5995	CIS Capstone	3 credits
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TOTAL OF 30 CREDITS TO COMPLETE PROGRAM

***BRIDGE COURSES – FULLY/PARTIALLY REQUIRED
FOR CONDITIONAL ADMISSION
(CREDITS ARE NOT COUNTED TOWARD DEGREE REQUIREMENTS)**

CPS 5010	Fundamentals of Computer Science for Graduate Program	3 credits
CPS 5011	Computer Organization and Programming for Graduate Program	3 credits
CPS 5012	Data Structure for Graduate Program	3 credits
CPS 5013	Computer Systems for Graduate Program	3 credits
CPS 5014	Algorithm Analysis for Graduate Program	3 credits
CPS 5015	Computer Security for Graduate Program	3 credits

REV 02/11/20

* Students who have received conditional admission are required to complete the bridge course(s) listed on the offer letter. The credits are not counted toward the "Total of 30 credits" degree requirements.