

MSEE and MSCE Director: Justin Jackson, PhD
MBA Director: Shaun Hansen, PhD

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MBA / MSCE Dual Degree (Project Track)		MBA / MSCE Dual Degree (Coursework Track)	
Foundations (required only for non-business majors)		Foundations (required only for non-business majors)	
	15		15
MBA 6010 Legal and Regulatory Envir. of Business	3	MBA 6010 Legal and Regulatory Envir. of Business	3
MBA 6020 Financial and Managerial Accounting	3	MBA 6020 Financial and Managerial Accounting	3
MBA 6040 Managerial Economics	3	MBA 6040 Managerial Economics	3
MATH 3410 Probability and Statistics	3	MATH 3410 Probability and Statistics	3
MBA 6051 Quantitative Methods II	3	MBA 6051 Quantitative Methods II	3
Required MBA Courses (required for all dual degree students)	27	Required MBA Courses (required for all dual degree students)	30
MBA 6110 Fundamentals of Ethical Leadership	3	MBA 6110 Fundamentals of Ethical Leadership	3
MBA 6120 Organizational Behavior	3	MBA 6120 Organizational Behavior	3
MBA 6130 Financial Management	3	MBA 6130 Financial Management	3
MBA 6140 Marketing Management	3	MBA 6140 Marketing Management	3
MBA 6150 Logistics/Operations Management	3	MBA 6150 Logistics/Operations Management	3
MBA 6210 Management Accounting and Control	3	MBA 6210 Management Accounting and Control	3
MBA 6410 Global Macroeconomic Conditions	3	MBA 6410 Global Macroeconomic Conditions	3
MBA 6310 IT in the Enterprise	3	MBA 6310 IT in the Enterprise	3
MBA 6180 Strategic Management	3	MBA 6180 Strategic Management	3
		MBA 6580 Project Management	3
MSCE Leveling Courses (required only for non-BSCCE majors)*	31	MSCE Leveling Courses (required only for non-BSCCE majors)*	31
CS 2420 Introduction to Data Structures and Algorithms	4	CS 2420 Introduction to Data Structures and Algorithms	4
CS 2810 Computer Architecture/Organization	4	CS 2810 Computer Architecture/Organization	4
CS 3100 Operating Systems	4	CS 3100 Operating Systems	4
ECE 3110 Microelectronics I	4	ECE 3110 Microelectronics I	4
ECE 3210 Signals and Systems	4	ECE 3210 Signals and Systems	4
ECE 3610 Digital Systems	4	ECE 3610 Digital Systems	4
MATH 3410 Probability and Statistics	3	MATH 3410 Probability and Statistics	3
MATH 2250 Linear Algebra and Differential Equations OR	4	MATH 2250 Linear Algebra and Differential Equations OR	4
MATH 2270 Elementary Linear Algebra AND	3	MATH 2270 Elementary Linear Algebra AND	3
MATH 2280 Ordinary Differential Equations	3	MATH 2280 Ordinary Differential Equations	3
*Additional prerequisites may be required		*Additional prerequisites may be required	
Required MSCE (select 7 courses, at least 2 ECE, at least 2 CS)	21	Required MSCE (select 8 courses, at least 3 ECE, at least 3 CS)	24
ECE 6110 Digital VLSI Design	3	ECE 6110 Digital VLSI Design	3
ECE 6130 Advanced Semiconductor Devices	3	ECE 6130 Advanced Semiconductor Devices	3
ECE 6140 Sensors and Instrumentation	3	ECE 6140 Sensors and Instrumentation	3
ECE 6210 Digital Signal Processing	3	ECE 6210 Digital Signal Processing	3
ECE 6220 Image Processing	3	ECE 6220 Image Processing	3
ECE 6230 Engineering Applications in Deep Learning	3	ECE 6230 Engineering Applications in Deep Learning	3
ECE 6410 Communication Circuits and Systems	3	ECE 6410 Communication Circuits and Systems	3
ECE 6420 Digital Communication	3	ECE 6420 Digital Communication	3
ECE 6440 Optical Communication Systems	3	ECE 6440 Optical Communication Systems	3
ECE 6620 Digital System Testing	3	ECE 6620 Digital System Testing	3
ECE 6640 Model-Based Engineering	3	ECE 6640 Model-Based Engineering	3
ECE 6710 Real-Time Systems	3	ECE 6710 Real-Time Systems	3
ECE 6730 Robotics	3	ECE 6730 Robotics	3
ECE 6800 Individual Studies	3	ECE 6800 Individual Studies	3
ECE 6900 Special Topics	3	ECE 6900 Special Topics	3
CS 6100 Distributed Operating Systems	3	CS 6100 Distributed Operating Systems	3
CS 6420 Advanced Algorithms	3	CS 6420 Advanced Algorithms	3
CS 6500 Advanced Artificial Intelligence	3	CS 6500 Advanced Artificial Intelligence	3
CS 6600 Machine Learning	3	CS 6600 Machine Learning	3
CS 6610 - Computer Architecture	3	CS 6610 - Computer Architecture	3
CS 6740 Computer Systems Security	3	CS 6740 Computer Systems Security	3
CS 6820 Compiler Design	3	CS 6820 Compiler Design	3
CS 6840 Formal System Design	3	CS 6840 Formal System Design	3
CS 6850 Parallel Programming and Architecture	3	CS 6850 Parallel Programming and Architecture	3
Design Project (Individual Study)	6		
ECE 6010 - Design Project	3		
MBA 6680 - Graduate Consulting Project	3		
Business Graduates	85	Business Graduates	85
BSCCE Graduates	66	BSCCE Graduates	66
Other Graduates	97	Other Graduates	97