Undergraduate Program Name: Bachelor of Science in Computer Engineering
Graduate Program Name: Master of Science in Electrical and Computer Engineering

Pathway Description: BSCPE to MS-ECE

Double Owl Scholars will NOT take 3 of the following Undergrad courses:	In their place, they will take the paired course below from the MS-ECE:
Engineering electives (9 credits)	Any MS-ECE elective courses

Sample pathway of study:

Year 1 - Fall (credits)	Credits	Year 1 - Spring (credits)	Credits
B2 (COM 1100 Human Communications Rec.)	3	CSE 1321 & 1321L (C++ Lab)	4
A2 (MATH 1190 Calculus I)	4	D1 (Math 2202 Calculus II)	4
CHEM 1211/1211L	4	D2 (PHYS 2211 & 2211L)	4
CPE 1000 (Computer Engineering Fundamentals)	2	A1 (ENGL 1102)	3
A1 (ENGL 1101)	3		
TOTAL SEMESTER CREDITS	**16**	**TOTAL SEMESTER CREDITS**	**15**
Year 2 - Fall (credits)	**Credits**	**Year 2 - Spring (credits)**	**Credits**
C2 (Arts & Culture of the World)	3	STAT 2332 Probability & Data Analysis	3
MATH 2306	3	B1 (ECON 1000 Contemporary Economic Issues)	2
D2 (PHYS 2212 & 2212L)	4	C1 (Literature of the World)	3
EE 2301 Circuits Analysis I	4	EE 2501 (Digital Logic Design)	4
E4 (STS 1101 Science, Tech., & Society Rec.)	3	EE 3401 (Engineering Electronics)	4
TOTAL SEMESTER CREDITS	**17**	**TOTAL SEMESTER CREDITS**	**16**
Year 3 - Fall (credits)	**Credits**	**Year 3 - Spring (credits)**	**Credits**
E1 (POLS 1101)	3	**MSAE Elective**	3
MATH 2335	3	CPE 4040 Data Collection & Analysis	3
ENGR 3325 Engineering Economic Analysis	3	MATH 2345	3
CPE 3000 Computer Organization Interfacing	4	CPE 4010 Sensors, Actuators, Integration	4
CPE 3030 Advanced Embedded Design	4	E2 (U.S. History)	3
TOTAL SEMESTER CREDITS	**17**	**TOTAL SEMESTER CREDITS**	**16**
Apply to Double Owl Pathway			
Year 4 - Fall (credits)	**Credits**	**Year 4 - Spring (credits)**	**Credits**
MSAE Elective	3	**MSAE Elective**	3
EE 4201 Control Systems	4	CPE 4020 Device Networks	4
E3 World History	3	CPE 3040 Interfacing & Communications	4

	Credits	CPE 4850 Senior Project Design	3
CPE 3020 VHDL Design with FPGAs	4		
CPE 4800 Senior Project Proposal	2		
TOTAL SEMESTER CREDITS	**16**	**TOTAL SEMESTER CREDITS**	**14**
		Apply to MS-ECE Program	
Year 5 - Fall (credits)	**Credits**	**Year 5 - Spring (credits)**	**Credits**
ENGR 6002	3	MSAE Elective	3
ENGR 6120 *OR* MSAE Elective[1]	3	MSAE Elective	3
MSAE Elective	3		
TOTAL SEMESTER CREDITS	**9**	**TOTAL SEMESTER CREDITS**	**6**
Year 6 - Fall (credits)	**Credits**	**Year 6 - Spring (credits)**	**Credits**
MSAE Elective	3		
Any Graduate Level Course	3		
TOTAL SEMESTER CREDITS	**6**	**TOTAL SEMESTER CREDITS**	**0**

[1] Project Option students should elect ENGR 6120, Coursework Option students should elect another MS-ECE Elective

PROGRAM TOTAL:148 credits