Double Owl Pathway of Study
Undergraduate Program Name: BS in Industrial Engineering Technology
Graduate Program Name: MS in Systems Engineering

Course Pairs:

Double Owl Scholars will NOT take the following Industrial Engineering Technology courses:	In their place, Double Owl Scholars will take the following MS in Systems Engineering courses:
IET 4135	SYE 6010
IET 3424	SYE 6025
Upper division IET Elective	Any SYE Elective

Year 1 - Fall (15 credits)	Credits	Year 1 - Spring (16 credits)	Credits
ENGL 1101: English Composition I [A1]	3	ENGL 1102: English Composition II [A1]	3
MATH 1113: Pre-Calculus [A2]	3	IET 2449-Logistics & Supply Chain Management	3
AADS 1102, AMST 1102, ASIA 1102, COM 1100, FL 1002, GWST 1102, LALS 1102, LDRS 2300, PAX 1102, PHIL 2200, POLS 241, or RELS 1102 [B2]	3	IET 2305: The Role of Industrial Engineering Tech in Industrial Systems [F]	4
HIST 1100, HIST 1111, or HIST 1112 [E3]	3	POLS 1101: American Government [E1]	3
IET 1000: Orientation	1	IET 2227: Introduction to Statistics	3
ECON 1000: Contemporary Economic Issues [B1]	2		
Total	15	Total	16
Year 2 - Fall (15 credits)	**Credits**	**Year 2 - Spring (16 credits)**	**Credits**
MATH 1190: Calculus I or MATH 1501: Calculus I[D1]	4	PHYS 2211+Lab OR PHYS 1111 + Lab OR CHEM 1211 + Lab OR BIOL 1107 + Lab [D2]	4
EDG 1210: Survey of Engineering Graphics [F]	2	ART 1107, DANC 1107, MUSI 1107, TPS 1107 [C2]	3
IET 3339: Statistical Quality Control	3	CRJU 1101, GEOG 1101, PSYC 1101, SOCI 1101, STS 1101*, ANTH 1102, or ECON 2106 [E4]	3
IT 1113: Programming Principles [F]	3	IET 3403: Advanced Statistics w/ Application	3
PHIL 2010, ENGL 2110, ENGL 2111, ENGL 2112, ENGL 2120, ENGL 2121, ENGL 2122, ENGL 2130, ENGL 2131, ENGL 2132, or ENGL 2300 [C1]	3	ACCT 2100 – Introduction to Financial Accounting	3
Total	15	Total	16
Year 3 - Fall (17 credits)	**Credits**	**Year 3 - Spring (17 credits)**	**Credits**
PHYS 2212 + Lab OR PHYS 1112 + Lab OR CHEM 1212 + Lab OR BIOL 1108 + Lab [D2]	4	IET 4422: Facilities Design, Plant Layout & Materials Handling	4
HIST 2111 or HIST 2112 [E2]	3	Free Elective (1 of 2)	3
IET 3322: Work Measurement & Ergonomics	4	Area F Lab Science Requirement	4
IET 3433: Product & Processing Cost	3	IET 3356: Quality Concepts and System Design	3
TCOM 2010: Technical Writing [F]	3	Upper-Division IET Elective (1 of 3)	3
Total	17	Total	17
		Apply to Double Owl Program	
Year 4 – Fall (16 credits)	**Credits**	**Year 4 – Spring (15 credits)**	**Credits**
SYE 6010 Project Management Processes	3	IET 4151: Operations Management for Engineers	3
IET 4115: Human Resources Management for Engineers	3	IET 4405: Operations Research- Concepts, Models, & Methods	3

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Free Elective (2 of 2)	3	IET 4451: System Simulation	3
IET 4810: Ethics & Safety	1	IET 4475: Senior Project	3
Upper-Division IET Elective (2 of 3)	3	SYE 6025 Economic Decision Analysis	3
One SYE Elective	3		
Total	16	Total	15
		Apply to MSSENG	
Year 5– Fall (9 or 12 credits)	**Credits**	**Year 5 – Spring (9 or 12 credits)**	**Credits**
QA 6610 Statistics for Quality Assurance	3	SYE 6030 Advanced Systems Dynamic Modeling	3
Graduate Elective	3	SYE 6055 Systems Engineering Project	3
Graduate Elective	3	Graduate Elective	3
Optional fall graduate elective	3	Or optional spring graduate elective	3
Total	9or12	Total	9or12

Double Pathway
Total: (127 + 21) = 148

Δ Required Elective	† Milestone	*Recommended General Education Course
This academic map is a suggested four-year schedule of courses based on degree requirements in the undergraduate catalog. This sample schedule serves as a general guideline to help build a full schedule each term. Missing milestones could delay your program. Also see the current undergraduate catalog for a complete list of requirements, electives, and pre-requisites. This map is not a substitute for academic advisement. Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact the department and/or program area for current information.		