



## MS in Systems Engineering - **Sample Course Schedule**

All classes are 3 credit hours.

Fall	Winter	Spring
First Year		
Systems Engineering Fundamentals ENSY 4010	Project Management in Relation to Systems Engineering ENSY 4090	Digital Transformations ENSY 4050
Applied Machine Learning ENSY 4200	Design of Space Systems Part 1 ENSY 4012	Design of Space Systems Part 2 ENSY 4022

Second Year		
Systems Engineering Requirements Development ENSY 4012	Conceptual Design ENSY 4016	Complex Systems Architectures ENSY 4014
Practical Model Based Systems Engineering ENSY 4060	Practical Approaches ENSY 4170	Practical Validation and Verification Test Planning ENSY 4112

Third Year		
Applied Mathematics for Systems Engineer ENSY 4180	Intro to Probability and Statistics ENSY 4181	Data Analytics for Systems Engineers ENSY 4182
Optimization ENSY 4040	Optimization for Advanced Systems ENSY 4042	

Summer Schedule (Sample)
Applied Systems Design ENSY 4024
Intro to Aerospace Missions ENSY 4030