M.S. in Aeronautics

DEGREE REQUIREMENTS

Core/Major

rements	
The Air Transportation System	3
Human Factors in the Aviation/Aerospace Industry	3
Project Management in Aviation/Aerospace	3
Applications in Crew Resource Management	3
Airport Operations and Management	3
Current Research Problems in Aviation/ Aerospace	3
Statistical Analysis	3
	21
	The Air Transportation System Human Factors in the Aviation/Aerospace Industry Project Management in Aviation/Aerospace Applications in Crew Resource Management Airport Operations and Management Current Research Problems in Aviation/ Aerospace

Specialization

Specialization	9
Choose at least one of the Specializations listed.	

Total Degree Requirements 30

Specializations:

Aviation and Aerospace Sustainability

AASI 600	Sustainable Aviation and Aerospace	3
	Perspectives	
AASI 625	Sustainability Policy in Aviation and Aerospace	3
AASI 629	Sustainable Air Vehicles; Design and Propulsion	3

Small Uncrewed Aircraft Systems (sUAS) Operations

Students declaring the sUAS Operations Specialization or registering for courses within it must be physically located within the U.S. when registering for and while participating in the UNSY 520 and UNSY 620 courses. Students must contact their Academic Advisor regarding additional cost, possible travel, and FAA Testing, prior to enrolling in the first course of this specialization, UNSY 515.

UNSY 515	sUAS Operation Fundamentals	3
UNSY 520	sUAS Practical Application and Assessment	3
UNSY 620	sUAS Operational Planning and Safety	3
	Management	

Uncrewed and Autonomous Systems

UNSY 501	Application of Uncrewed and Autonomous Systems	3
UNSY 603	Uncrewed and Autonomous Systems Operational Configuration	3
UNSY 503	Legal and Regulatory Issues in Uncrewed and Autonomous Systems	3

Space Operations

SPAC 511	Earth Observation and Remote Sensing	3
SPAC 512	Human Spaceflight Industry	3
SPAC 514	Commercial and Governmental Space	3
	Infrastructure	

Aviation Safety

MSAS 611	Aviation/Aerospace System Safety	3
MSAS 615	Aviation/Aerospace Accident Investigation and Analysis	3
MSAS 621	Aviation/Aerospace Safety Program Management	3
Human Fa	ctors	
MSHF 606	Human Cognition	3
MSHF 612	Human Performance, Limitation, and Error	3
MSHF 624	Ergonomics and Biomechanics	3
Aviation M	aintenance	
MAVM 601	Leadership in Global Aviation Maintenance Organizations	3
MAVM 605	Global Maintenance Resource Management	3
MAVM 615	Strategic Management of Global Maintenance, Repair and Overhaul (MRO) Operations	3
Aviation C	Cybersecurity	
MACY 515	Foundations of Aviation Cybersecurity	3
MACY 520	Aviation Cybersecurity Threats, Actors, Tools, and Techniques	3
MACY 525	Aviation Cybersecurity Risk Management and Resilience	3

Dagagrah

Research		
RSCH 670	Research Methods	3
RSCH 700A	Thesis I	3
RSCH 700B	Thesis II	3