

### Undergraduate Master Course Schedule

ERAU Worldwide-Department of Online Learning offers undergraduate Online courses twelve terms a year (Terms have monthly starts). All undergraduate Online courses are offered in a 9 week format. Terms will have varying start dates.

This schedule is subject to change.

#### How to Self-Enroll in Classes\*\*:

Login to ERNIE, then click Campus Solutions Student Center -> Click Enroll under Academics -> Choose term -> Enter class number or click Class Search -> Choose Online or Nearby Course -> Choose campus -> Choose location (choose \*Online or \*EagleVision Home for these type of courses) -> Enter search criteria and click Search -> Select course and click Next -> To complete enrollment click Proceed to step 2 of 3 -> You should receive a registration confirmation email.

\*\*New students must enroll with their advisor for their first term. Students must be free of any holds to self-enroll. Please contact your campus/advisor if you need further assistance.

**6-22-2020**

### Undergraduate Master Course Schedule 2020-23

		TERM	2549	2552
		MONTH	Sept 2020	Oct 2020
		Start Date	9-Sep	19-Oct
		End Date	10-Nov	20-Dec
COURSE #	COURSE TITLE			
AMNT 240	General Aeronautics & Applications		YES	YES
AMNT 260	Aircraft Electrical Systems Theory			YES
AMNT 265	Aeronautical Electronics for Aviation Maintenance Technicians			
AMNT 270	Airframe Structures & Applications		YES	YES
AMNT 271	Airframe Systems & Applications		YES	YES
AMNT 280	Reciprocating Engine Theory & Applications			YES
AMNT 281	Turbine Engine Theory & Applications			YES
AMNT 416	Aviation Maintenance Management: A Global Perspective		YES	YES
ASCI 121	Private Pilot Operations		YES	
ASCI 121L	Airmen Knowledge Test Preparation		YES	
ASCI 202	Introduction to Aeronautical Science		YES	YES
ASCI 254	Aviation Legislation		YES	YES
ASCI 260	Unmanned Aerial Vehicles and Systems			
ASCI 301	Introduction to Air Traffic Control			
ASCI 303	Tower & Radar ATC & Management			YES
ASCI 309	Aerodynamics		YES	YES
ASCI 316	Operational Business Aspects of Unmanned Aerial Systems		NOW OFFERED AS	
ASCI 317	Rotorcraft			YES
ASCI 318	Unmanned Aerial Systems Robotics		NOW OFFERED AS	
ASCI 322	Aircraft Inspection and Scheduled Maintenance Programs			YES
ASCI 327	Aviation Work Force Management in a Global Environment		NOW OFFERED AS	
ASCI 357	Flight Physiology			YES
ASCI 378	Helicopter Flights Environment			YES
ASCI 388	Helicopter Flight Planning			YES
ASCI 401	Airport Development and Operations		NOW OFFERED AS	

ASCI 403	Air Traffic Management		
ASCI 404	Applications in Aviation/Aerospace Law	YES	YES
ASCI 406	Airborne Law Enforcement	YES	
ASCI 410	Unmanned Sensing Systems Technology	NOW OFFERED AS	
ASCI 411	Human Factors in Air Traffic Management		YES
ASCI 412	Corporate & Business Aviation	YES	
ASCI 416	Aviation Maintenance Management: A Global Perspective	NOW OFFERED AS	
ASCI 424	Maintenance Repair and Overhaul in Aviation	YES	
ASCI 426	Airport Management in Air Traffic Management		
ASCI 428	Advanced Helicopter Systems & Functions		YES
ASCI 429	Adv.Technologies in Design & Prod. Of Aircraft Structures and	YES	
ASCI 433	Aviation Logistics & Supply Chain Management	NOW OFFERED AS	
ASCI 438	Advanced Helicopter Operations	YES	YES
BIOL 120	Elements of Biological Science	YES	YES
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<b>COURSE #</b>	<b>COURSE TITLE</b>		
BSAB 410	Management of Air Cargo	YES	
BSAB 412	Airport Planning and Design		YES
BSAB 415	Airline Management		YES
BSAB 416	Space Tourism		
BSAB 418	Airport Administration and Finance		
BSAB 425	Trends and Current Problems in Air Transportation		
BSAB 426	International Aviation Management		YES
BSAB 450	Airline/Airport Marketing	YES	YES
BSLD 275	Critical Thinking for Leadership		
BSLD 285	The Evolution of Leadership		
BSLD 300	Emotional, Social, Cognitive Intelligence		
BSLD 304	Coaching and Mentoring		YES
BSLD 310	Mediation, Negotiation, and Conflict Resolution		YES
BSLD 315	Contemporary Leadership Theories		YES
BSLD 407	Driving Change in Organizations		
BSSM 410	Safety & Health Regulations for Construction		
BUAN 301	Evid-Based Management: Need for Data		
BUAN 302	Communication and Ethical Issues in Data Analysis		
CSCI 109	Introduction to Computers & Applications	YES	YES
CSCI 123	Introduction to Computing for Data Analysis		
COMD 225	Science and Technology Communication		YES
COMD 230	Digital Photography		
COMD 260	Introduction to Media		
COMD 265	Introduction to Newswriting and Reporting		YES
COMD 295	Rhetorical Strategies & Analysis		
COMD 320	Mass Communication Law and Ethics		
COMD 322	Aviation and Aerospace Communication		
COMD 335	Technology and Modern Civilization		YES
COMD 350	Environmental Communication		
COMD 360	Media Relations I		

COMD 362	Communication and Organizational Culture			
COMD 363	Communication and Society			
COMD 364	Visual Design			
COMD 415	Nonverbal Communication			
COMD 420	Applied Cross Cultural Communication			
COMD 460	Media Relations II		YES	
CYBR 155	Foundations of Information Security		YES	
CYBR 235	Computer & Network Technologies			
CYBR 335	Information Security Tools & Techniques		YES	
CYBR 365	Introduction to Digital Forensics			
CYBR 465	Cybercrime & Cyberlaw			
CYBR 474	Issues in Aviation Cybersecurity			
CYBR 485	War, Terrorism, & Diplomacy in Cyberspace		YES	
ECON 210	Microeconomics	YES	YES	
ECON 211	Macroeconomics	YES	YES	
ECON 225	Engineering Economics		YES	
ECON 312	Money and Banking			
ECON 315	Managerial Economics			
ECON 411	International Economics		YES	
ECON 420	Economics of Air Transportation			
EMGY 310	Fundamentals of Emergency Management	YES		
EMGY 400	Introduction to Incident Command System		YES	
EMGY 405	Disaster Policy & Management			
EMGY 430	Emergency Management and Contingency Planning			
ENGL 106	Introduction to Composition	YES	YES	
ENGL 123	English Composition	YES	YES	
ENGL 143	Studies in Rhetorical Theory		YES	
ENGL 221	Technical Report Writing	YES	YES	
ENGL 222	Business Communication	YES	YES	
ENGL 223	Collaborative Writing & Presenting		YES	
ENGL 355	Creative Writing			
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<b>COURSE #</b>	<b>COURSE TITLE</b>			
<b>Engineering Science Courses</b>				
AERO 309	Aerodynamic Performance of Flight Vehicles		YES	
CESC 220	Digital Circuit Design <b>(Taken with CESC 222)</b>		YES	
CESC 222	Digital Circuit Design Lab <b>(Taken with CESC 220)</b>		YES	
CHEM 139	General Chemistry I <b>(Taken with CHEM 141)</b>		YES	
CHEM 141	General Chemistry I Lab <b>(Taken with CHEM 139)</b>		YES	
ELEC 220	Circuits <b>(Taken with ELEC 221)</b>	YES		
ELEC 221	Circuits Laboratory <b>(Taken with ELEC 220)</b>	YES		
ELEC 230	Electronics <b>(Taken with ELEC 231)</b>		YES	
ELEC 231	Electronics Laboratory <b>(Taken with ELEC 230)</b>		YES	
ENGR 101	Introduction to Engineering	YES		
ENGR 115	Introduction to Computing for Engineers		YES	
ENGR 120	Graphical Communications	YES		

ENGR 121	Graphical Communications for Technical Management	YES		
ENGR 330	Signals & Systems <b>(Taken with ENGR 331)</b>	YES		
ENGR 331	Signals & Systems Laboratory <b>(Taken with ENGR 330)</b>	YES		
ENGR 350	Project Engineering		YES	
ENGR 400	Fundamentals of Energy Systems	YES		
ENGR 404	Mechatronics <b>(Taken with ENGR 405)</b>	YES		
ENGR 405	Mechatronics Laboratory <b>(Taken with ENGR 404)</b>	YES		
ENGR 450	Systems and Controls		YES	
ESCI 105	Fundamentals of Engineering		NO	
ESCI 201	Statics		YES	
ESCI 202	Solid Mechanics	YES		
ESCI 204	Dynamics		YES	
ESCI 206	Fluid Mechanics	YES		
ESCI 305	Thermodynamics	YES		
ESCI 325	Engineering Materials and Structures		YES	
ETEC 310	Material Science for Engineering Technology	YES		
ETEC 315	Circuits for Engineering Technology			
ETEC 409	Applied Aeronautics		YES	
ETEC 410	Thermodynamics for Engineering Technology			
ETEC 415	Control Systems			
ETEC 420	Application of Engineering Technology		YES	
ETEC 485	Professional Seminar			
MATH 143	Precalculus Essentials	YES	YES	
MATH 201	Learning to Reason: Art & Quotient		YES	
MATH 202	Learning to Reason: Commerce & Flux			
MATH 241	Calculus and Analytical Geometry I (4 credit)	YES	YES	
MATH 242	Calculus and Analytical Geometry II (4 credit)	YES	YES	
MATH 243	Calculus and Analytical Geometry III (4 credit)	YES	YES	
MATH 345	Differential Equations and Matrix Methods		YES	
MECH 302	Introduction to Robotics I	YES		
MECH 303	Robotics Laboratory	YES		
MECH 313	Instrumentation & Data Acquisition	YES		
MECH 314	Instrumentation & Data Acquisition Laboratory	YES		
PHYS 150	Physics I for Engineers	YES	YES	
PHYS 160	Physics II for Engineers		YES	
PHYS 250	Physics III for Engineers <b>(Taken with PHYS 253)</b>	YES	YES	
PHYS 253	Physics Laboratory for Engineers <b>(Taken with PHYS 250)</b>	YES	YES	
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ESVS 201	Fire-Related Human Behavior			YES
ESVS 301	Community Risk Reduction for the Fire and Emergency Services			
ESVS 302	Fire Dynamics			
ESVS 303	Fire Protection Structures and Systems			
ESVS 304	Fire Investigation and Analysis			YES
ESVS 305	Fire Prevention Organization and Management			

ESVS 400	Analytical Approaches to Public Fire Protection		YES
ESVS 401	Applications of Fire Research		
ESVS 402	Fire and Emergency Services Administration		
ESVS 403	Disaster Planning and Control		
ESVS 404	Managerial Issues in Hazardous Materials		
ESVS 405	Personnel Management for the Fire & Emergency Services		
ESVS 406	Political and Legal Foundations of Fire Protection		
ESVS 480	Adv. Principles in Fire & Emergency Services Safety & Surviv		
GNED 103	Basic Mathematics	YES	YES
GNED 104	Basic English		YES
GOVT 320	American National Government		
GOVT 325	International Studies		
GOVT 331	Current Issues in America		YES
GOVT 340	U.S. Foreign Policy		YES
GOVT 363	Inter-American Relations		
GOVT 402	Globalization and World Politics		YES
HIST 130	History of Aviation in America	YES	YES
HIST 302	Evolution of Scientific Thought		YES
HLSD 110	Introduction to Homeland Security		YES
HLSD 215	Introduction to Industrial Security		YES
HLSD 280	Professional Skills in Homeland Security		
HLSD 290	Introduction to Environmental Security		YES
HLSD 315	Critical Infrastructure Sec., Resilience, & Risk Analysis		
HLSD 320	Homeland Security Law & Policy		YES
HLSD 360	Strategic Planning & Decision Making in Homeland Security		
HLSD 405	Emergent Topics in Homeland Security		
HLSD 410	Exercise Design & Eval in Homeland Security		
HUMN 142	Studies in Literature	YES	YES
HUMN 210	World Culture	YES	YES
HUMN 213	Introduction to Islamic Studies		
HUMN 220	Asian Studies		
HUMN 300	World Literature		
HUMN 310	American Literature		YES
HUMN 330	Values and Ethics	YES	YES
HUMN 333	How Fiction, Film, & Popular Culture Rep Science & Math		YES
HUMN 400	Science and Aviation/Aerospace Technology in Society		
ISTA 230	Network Fundamentals for Server Systems		NO
ISTA 330	Identity & Access Control for Server Management		NO
ISTA 332	Advanced Server Systems Management		NO
ISTA 430	Topics in IT Systems Administration		NO
ISTA 432	Building Azure Infrastructures		NO
LGMT 236	Principles of Purchasing	YES	
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MATH 106	Basic Algebra & Trigonometry	YES	YES

MATH 111	Pre-Calculus for Aviation	YES	YES	
MATH 112	Applied Calculus for Aviation	YES	YES	
MATH 140	College Algebra	YES	YES	
MATH 142	Trigonometry	YES	YES	
MGMT 201	Principles of Management	YES	YES	
MGMT 203	Management for Aeronautical Science	YES	YES	
MGMT 210	Financial Accounting	YES	YES	
MGMT 221	Introduction to Management Information Systems	YES	YES	
MGMT 308	Public Administration			
MGMT 311	Marketing	YES	YES	
MGMT 312	Managerial Accounting	YES	YES	
MGMT 314	Human Resource Management	YES	YES	
MGMT 317	Organizational Behavior	YES	YES	
MGMT 320	Business Information Systems		YES	
MGMT 321	Aviation/Aerospace Systems Analysis Methods	YES	YES	
MGMT 322	Aviation Insurance		YES	
MGMT 324	Aviation Labor Relations	YES		
MGMT 325	Social Responsibility & Ethics in Management	YES	YES	
MGMT 331	Transportation Principles			
MGMT 332	Corporate Finance I			
MGMT 333	Personal Financial Planning	YES		
MGMT 335	International Business	YES	YES	
MGMT 371	Leadership	YES	YES	
MGMT 385	Programming Concepts (formerly MGMT 395)			
MGMT 386	Fundamentals of Information Systems Security	YES	YES	
MGMT 387	Managing Risk in Information Systems			
MGMT 388	System Forensics, Investigation, and Response		YES	
MGMT 389	Information Assurance and Information Quality		YES	
MGMT 390	Business Law	YES	YES	
MGMT 392	Database Management			
MGMT 393	Computer Networks			
MGMT 394	Information Security Management	YES		
MGMT 401	Information Security Policies			
MGMT 402	Legal Issues in Information Security	YES	YES	
MGMT 403	IT Audit and Control			
MGMT 404	Business Continuity & Disaster Recovery Planning			
MGMT 408	Airport Management			
MGMT 411	Logistics Management for Aviation/Aerospace		YES	
MGMT 420	Management of Production & Operations		YES	
MGMT 422	Information Technology Management, Strategy & Governance			
MGMT 427	Management of the Multicultural Workforce	YES	YES	
MGMT 428	Business Analytics and Data Intelligence		YES	
MGMT 436	Strategic Management	YES	YES	
MGMT 440	Advanced Professional Logistics	YES		
MGMT 444	Principles of Supply Chain Management		YES	
MGMT 449	Strategic Marketing Management		YES	
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COURSE #	COURSE TITLE			
MGMT 482	Human Resource Training & Development			
MGMT 483	Compensation & Benefits			
MGMT 492	Information Systems Project Management			
MGMT 494	Aviation Information Systems		YES	YES
MGMT 495	Staffing & Workforce Planning			
PHYS 102	Explorations in Physics		YES	YES
PHYS 123	Science of Flight			YES
PHYS 142	Introduction to Environmental Science			YES
PHYS 224	Astronomy			YES
PHYS 304	Environmental Science			
PMGT 300	The Profession		YES	YES
PMGT 391	Introduction to Project Management			YES
PMGT 394	Planning 2: Technical Soft Skills			YES
PMGT 400	Project Risk, Execution, & Change			YES
PMGT 424	Project Management in Aviation Operations			YES
PMGT 461	Global Project Management			
PMGT 465	Managing Troubled Projects			
PMGT 470	Agile PM			
PSYC 220	Introduction to Psychology			YES
PSYC 320	Aviation Psychology			
PSYC 326	Group and Team Behavior			YES
PSYC 340	Industrial-Organizational Psychology			
PSYC 350	Social Psychology			YES
PSYC 400	Introduction to Cognitive Science			
RSCH 202	Introduction to Research Methods		YES	YES
SCTY 310	Introduction to Security			
SCTY 312	Global Crime & Criminal Justice Systems			YES
SCTY 315	Studies in Intelligence I			YES
SCTY 385	Intelligence Collection and Analysis			
SCTY 400	Airport Security			YES
SCTY 410	Physical Security			YES
SCTY 415	Studies in Intelligence II			YES
SCTY 420	General Aviation Security			YES
SCTY 430	Counterterrorism for Aviation			
SCTY 485	Corporate Security			YES
SCTY 488	National Security Issues & Terrorism			YES
SFTY 201	Introduction to Health, Occupational and Transportation Safety			
SFTY 205	Principles of Accident Investigation			YES
SFTY 210	Introduction to Aerospace Safety			YES
SFTY 311	Fundamentals of Occupational Safety & Health		YES	YES
SFTY 315	Environmental Compliance & Safety			YES
SFTY 320	Human Factors in Aviation Safety		YES	YES
SFTY 321	Ergonomics		YES	
SFTY 326	System Safety			YES
SFTY 330	Aircraft Accident Investigation		YES	YES
SFTY 335	Mechanical & Structural Factors in Aviation Safety		YES	YES
SFTY 341	Occupational Safety & Health Program Management			YES

SFTY 345	Aviation Safety Program Management		YES	YES
SFTY 350	Aircraft Crash & Emergency Management		YES	YES
SFTY 355	Industrial Hygiene & Toxicology			
SFTY 360	Construction Safety		YES	
SFTY 365	Fire Protection			YES
SFTY 375	Propulsion Plant Investigation			
SFTY 409	Aviation Safety		YES	YES
SFTY 410	Design of Engineering Hazard Controls			YES
SFTY 415	Human Reliability and Safety Analysis			
SFTY 420	Systems Design for Fire and Life Safety			YES
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<b>COURSE #</b>	<b>COURSE TITLE</b>			
SFTY 421	Ergonomics II			
SFTY 435	Aircraft Crash Survival Analysis & Design			YES
SFTY 440	System Safety Management		YES	
SFTY 450	Loss Control & Insurance			
SFTY 453	Constriction Scheduling & Control			
SFTY 457	Industrial Safety for Facilities Managers			YES
SFTY 462	Health, Safety, and Aviation Law			
SFTY 470	Advanced Occupational Safety & Health Technology			YES
SOCI 210	Introduction to Sociology		YES	
SOCI 300	Marriage and Family			YES
SOCI 310	Personality Development		YES	
SPCH 219	Speech		YES	YES
STAT 211	Statistics with Aviation Applications		YES	YES
STAT 222	Business Statistics		YES	YES
STAT 320	Decision Mathematics			YES
STAT 412	Probability and Statistics			YES
TRAN 274	Transportation Science		YES	
TRAN 321	Air Transportation Systems			
TRAN 331	Road and Highway Transportation			
TRAN 401	Transportation and the Environment			YES
TRAN 411	Strategic Intermodal Alliances			YES
TRAN 421	Transportation Safety and Security			
UNSY 205	Applied Physics for Unmanned Systems			YES
UNSY 235	Unmanned Aircraft Systems Operation and Cross-Country Data Entry			
UNSY 235L	UAS Data Planning			
UNSY 307	Unmanned Systems Networking			YES
UNSY 311	Unmanned Ground Systems & Applications			YES
UNSY 313	Unmanned Maritime Systems & Applications			YES
UNSY 315	Unmanned Aerial Systems and Operations		YES	YES
UNSY 316	Operational Business Aspects of Unmanned Aerial Systems			YES
UNSY 318	Unmanned Aerial Systems Robotics			YES
UNSY 319	UNSY Cybersecurity and Countermeasure Considerations			YES
UNSY 321	Unmanned Systems Localization & Path Planning			
UNSY 325	Unmanned Systems Testing and Inspections			

UNSY 329	Unmanned Systems Computation & Programming		
UNSY 331	Unmanned Systems Legal & Regulatory Compliance		YES
UNSY 405	Unmanned Systems Operational Environments & Conditions		
UNSY 410	Unmanned Sensing Systems Technology		YES
UNSY 415	Unmanned Space Systems & Application		YES
UNSY 421	Unmanned Systems Mission Planning		
UNSY 431	Unmanned Systems Human Factors Considerations		
UNSY 435	sUAS Practical Application and Assessment		YES
WEAX 201	Meteorology I	YES	YES
WEAX 302	Aviation Weather		
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<b>UGCP</b>	<b>Senior Thesis &amp; Capstones</b>		
ASCI 490	Aeronautical Science Capstone Course	YES	YES
AMNT 490	Aviation Maintenance Capstone Course	YES	YES
BSIS 473	Senior Thesis		
BSSM 490	Safety Management Capstone Course		
COMD 495	Senior Project		
ENGR 490	Capstone Design Project I	YES	
ENGR 491	Capstone Design Project II		YES
ETEC 490	Engineering Technology Capstone		
HLSD 495	Homeland Security Capstone I		
HLSD 496	Homeland Security Capstone II		
PMGT 490	Project Management Capstone		
SCTY 490	Aviation Security Capstone Course		
UNSY 490	Unmanned Systems Application Capstone		
UNSY 491	Operational Applications in Unmanned Systems	YES	
<b>Contact your campus or advisor for information regarding all capstone courses.</b>			