NIA Graduate Program: Fall 2017				
	FULL COURSE LIST			
HAMPTON UNIVERSITY	-			
TBD				
* Courses taught on HU campus				
GEORGIA TECH				
Aerospace Engineering (MS and PhD)				
AE 4791 Q	Mechanical Behavior of Composites	Kalaitzidou	MWF 9:05am-9:55am	
AE 6009 Q	Vicious Fluid Flow	Yeung	MWF 12:20pm-1:10pm	
AE 6030 Q	Unsteady Aerodynamics	Smith	Video Only	
AE 6070 Q	Rotary Wing Aerodynamics	Sankar	Video Only	
AE 6114 Q	Fundamentals of Solid Mechanics	Rimoli	TR 12:00pm-1:15pm	
AE 6333 Q	Rotorcraft Design I	Schrage	TR 1:30pm-2:45pm	
AE 6343 Q	Aircraft Design I	Mavris	F 3:00pm - 6:00pm	
AE 6353 Q	Orbital Mechanics	Gunter	TR 8:00am-9:15am	
AE 6372 Q	Aerospace Systems Engineering	Schrage	TR 9:30am -10:45am	
AE 6503 Q	Helicopter Stability and Control	Prasad	MWF 1:55pm-2:45pm	
AE 6701 Q	Wind Engineering	Sankar	Video Only	
AE 6765 Q	Kinetics & Thermodynamics of Gases	Jagoda	MWF 8:00am-9:10am	
AE 8801 QSM	Special Topics: 2D Unsteady Airfoil Aerodyn	Smith		
*Synchronous (live) course received or delivered from	NIA.			
+ Course instructor on-site at NIA				
NORTH CAROLINA STATE UNIVERSITY				
Mechanical and Aerospace Engineering (MS and PhD)				
MAE 504	Fluid Dynamics of Combustion I			
MAE 511	Advanced Dynamics with Applications to Aerospace Systems		-	
MAE 517	Advanced Precision Manufacturing for Products, Systems and Processes		-	
MAE 518	Acoustic Radiation I		-	
MAE 533	Engineering Design Optimization		_	
MAE 535	Micro/Nano Electromechanical Systems			
MAE 551	Airfoil Theory		-	
MAE 562	Physical Gas Dynamics			
MAE 577	Multi-Scale Two Phase Flow Simulations			
MAE 586	Projet Work in Mechanical Engineering			
MAE 688	Non-Thesis Masters Continuous Registration		Asynchronous Streaming Media	
Electrical and Computer Engineering (courses only)				
ECE 506	Architecture of Parallel Computers		-	
ECE 512	Analog Electronics			
ECE 515	Pandom Processing		_	
ECE 514	Power Electronics			
ECE 549	RF Design for Wireless			
ECE 550	Power Systems Operation and Control		1	
ECE 556	Agent-Based Mechatronics Systems			
ECE 564	ASIC and FPGPA Design with Verilog			
ECE 568	Conventional and Emerging Nanomanufacturing Techniques			
ECE 570	Computer Networks		Asynchronous streaming media	
ECE 573	Internet Protocols			
ECE 585	The Business of the Electric Utility Industry			
ECE 586	Communication and SCADA Systems for Smart Grid		4	
ECE 592-601	Wearable Biosensors		4	
ECE 592-602	1 opics in Data Science		4	
ECE 592-603	Embedded Systems Architecture	1	1	

ECE 600	ECE Graduate Orientation		
ECE 706	Advanced Parallel Computer Architecture		
ECE 726	Advanced Feedback Control		
ECE 732	Dynamic Control of Electric Machines		
ECE 792	LTE Communications		
Industrial & Systems Engineering (courses only)			
ISE 501	Introduction to Operations Research		
ISE 505	Managerial Finance for Engineers		
ISE 515	Manufacturing Process Engineering		
ISE 552	Design and Control of Production and Service Systems		Asynchronous streaming media
ISE 302	Real Trae Control of Automated Manufacturing		Asynemonous streaming media
ISE 716	Automated Systems Engineering		
ISE /10			
ISE 725	Planning, Production, Scheduling and Inventory Control		
ISE 741	Systems Safety Engineering		
Materials Colourer and Environming (
Materials Sciences and Engineering (courses only)			
MSE 500	Modern Concepts in Materials Science		
MSE 509	Nuclear Materials		
MSE 540	Processing of Metallic Materials		
MSE 545	Ceramic Processing		Asynchronous streaming media
MSE 708	Thermodynamics of Materials		Asynchronous streaming media
MSE 721	Nanoscale Simulations and Modeling		
MSE 760	Materials Science in Processing of Semiconductor Devices		
MSE 791-601	Nonferrous Allovs		
MSE 771-001			
MSF 791-602	Metastble Materials		
INDE //1 002			
These courses are offered asynchronously and utilize	WEB accessible streaming or CDROMs delivered to the student E	or undates on	asynchronous courses do
to: http://EngineeringOnline.ncsu.edu		or apaaloo on	adynemenede courses ge
*Synchronous (live) course received or delivered from	NIA.		
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA	NIA.		
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA ART LINIVERSITY	NIA.		
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY	NIA.		
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering	NIA.	1	
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering	NIA.		
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering			
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering	NIA.		MW 4:30pm-5:45pm
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering	NIA.		MW 4:30pm-5:45pm
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering ECEN 650	NIA.	Edmonson	MW 4:30pm-5:45pm
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering ECEN 650 Additional courses may be added; for requests espina	Digital Signal Processing I	Edmonson	MW 4:30pm-5:45pm
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering ECEN 650 Additional courses may be added; for requests, contact	NIA. Digital Signal Processing I t NIA	Edmonson	MW 4:30pm-5:45pm
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*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering ECEN 650 Additional courses may be added; for requests, contact OLD DOMINION UNIVERSITY Aerospace Engineering (MS and PhD) NIA received or web delivery TBD On-line (web) delivery only TBD UNIVERSITY OF MARYLAND Aerospace Engineering (MS and PhD) ENAE 631 ENAE 651	NIA. Digital Signal Processing I zt NIA	Edmonson Edm	MW 4:30pm-5:45pm
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering ECEN 650 Additional courses may be added; for requests, contact OLD DOMINION UNIVERSITY Aerospace Engineering (MS and PhD) NIA received or web delivery TBD On-line (web) delivery only TBD UNIVERSITY OF MARYLAND Aerospace Engineering (MS and PhD) ENAE 631 ENAE 651 ENAE 655	NIA. Digital Signal Processing I zt NIA	Edmonson Edmonson Govindarajan Chopra	MW 4:30pm-5:45pm
*Synchronous (live) course received or delivered from X Course instructor on-site at NIA NORTH CAROLINA A&T UNIVERSITY Computer Engineering Electrical Engineering Electrical Engineering ECEN 650 Additional courses may be added; for requests, contact OLD DOMINION UNIVERSITY Aerospace Engineering (MS and PhD) NIA received or web delivery TBD On-line (web) delivery only TBD UNIVERSITY OF MARYLAND Aerospace Engineering (MS and PhD) ENAE 631 ENAE 651 ENAE 655 ENAE 654	NIA. Digital Signal Processing I	Edmonson Edmonson Govindarajan Chopra TBA Bacadar	MW 4:30pm-5:45pm MW 4:30pm-5:45pm MW 9:30am-10:45am TR 9:30am-10:45am MW 11:00am-12:15pm TR 11:00am-12:15pm
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	Colortad Tanica in Association Frazinaning, Advanced Space Systems				
ENAE 788D	Design	Akin	TR 11:00am-12:15pm		
* Synchronous (live) course received or delivered from	NIA				
Civil Engineering					
CE 6470	Transport Economics and Finance	Chen	*MW 3:30pm -4:45pm		
CE 6500	Transport Sustainability	Smith	desk-asynch		
Chemical Engineering (courses only)					
ChE 6615	Advanced Thermodynamics	Choi	*TR 5:00pm-6:15pm		
Electrical and Computer Engineering (MS and Ph.D.)					
ECE 6501	Photonics I	Gupta	*TR 3:30pm-4:45pm		
		F	······		
ECE 6851	Linear Automatic Control Systems	Тао	*TR 11:00am-12:15pm		
Materials Sciences and Engineering (MS and Ph.D.)	·				
MSE 6010	Electronic and Crystal Structure of Material	Floro	*MW 2:00pm-3:15pm		
MSE 6050	Structure and Properties of Material	Zangari	TBA		
MAE 6250	Multibody Mechanical Systems	Russell	*MW 12:30pm - 1:45pm		
MAE 6620	Linear State Space Systems	Lin	*MW 2:00pm-3:15pm		
Engineering Physics (MS and Ph.D.)					
Systems Engineering (MS and Ph.D.)	Introduction to Systems Analysis and Design	Scherer	*TR 2:00pm - 3:15pm		
515 0001	introduction to systems relarysis and pesign	Scheren	11C 2.00pm - 5.15pm		
*Synchronous (live) course received or delivered from	NIA				
VIRGINIA IECH					
Actospace and Ocean Engineering (instant 1 n.D.)					
A OF 5125	V.1.1.D. 1.		TD 0.00 0.15		
AUE 5155 Electrical Computer Engineering (MS and PhD)	venicie Propulsion	L Ma	1K 8:00am-9:15am		
ECE 5164	Introduction to Space Science I	Clauer	MWF 9:00am-10:00am		
ECE 5754	Applied Linear Systems	SC	TR 11:00am-12:15pm		
	- Philes Fullow O'Biourp	Southward			
Materials Science and Engineering (MS and Ph D)					
MSE 5015	MSE Seminar	LV Asryan	TBD		
		-			

MSE 5114	Materials Characterization	MJ Kelley	MW 12:30pm-1:45pm
Virtual/CGEP Classes			
CEE 5084	IT for Infrastructure	Sinha	T 5:00pm -7:45pm
CEE 5125	Environmental Engineering Design	Не	T 5:30pm -8:15pm
CEE 5134	Engineering Aspects of Water Quality	Little	W 5:30pm-8:15pm
CEE 5984	Built Environment Information Modeling and Processing	Karimi	R 5:00pm -7:45pm
ECE 5560	Network and Computer Security		T 4:00pm - 6:45pm
ECE 5635	Radar System Desgin		TR 5:00pm - 6:15pm
ENGR 5004	Applied Systems Engineering		T 7:00pm - 9:45pm
ISE 5124	Management of Quality and Reliability		R 7:00pm-9:45pm
ISE 5434	Economics Evaluations of Industrial Projects	Keolling	M 7:00pm - 9:45pm
# Courses are available for gradua	te credit	*Synchi	ronous (live) course received or

Courses are available for graduate credit delivered from NIA X Course instructor on-site at NIA. the Peninsula Graduate Center courses are delivered at NIA Headquarters.

*Synchronous (live) course received or XX ONLINE course. Primarily received at desktop. **Synchrounous (live) course delivered at All VT AOE, ESM, MSE and ME