

NIA Graduate Program: Summer 2021

FULL COURSE LIST

HAMPTON UNIVERSITY

TBD			
* Courses taught on HU campus			

+ Course instructor on-site at NIA

GEORGIA TECH

Aerospace Engineering (MS and PhD)

AE 6050	Gas Dynamics		Asynchronous
AE 6503	Helicopter Stability and Control		Asynchronous

*Synchronous (live) course received or delivered from NIA.

+ Course instructor on-site at NIA

NORTH CAROLINA STATE UNIVERSITY (Courses begin May 19, 2021 with finals the first week of August.)

Mechanical and Aerospace Engineering (MS and PhD)

MAE 501	Advanced Engineering Thermodynamics		Asynchronous streaming media
MAE 511	Advanced Dynamics I		
MAE 513	Principles of Structural Vibrations		
MAE 515	Advanced Automotive Vehicle Dynamics		
MAE 526	Fundamentals of Product Design		
MAE 533	Finite Element Analysis I		
MAE 535	Design of Electromechanical Systems		
MAE 543	Fracture Mechanics		
MAE 550	Foundations of Fluid Dynamics		
MAE 561	Wing Theory		
MAE 586	Projet Work in Mechanical & Aerospace		

Electrical and Computer Engineering (courses only)

ECE 506	Architecture of Parallel Computers		Asynchronous streaming media
ECE 515	Digital Communications		
ECE 516	Systems Control Engineering		
ECE 535	Design of Electromechanical Systems		
ECE 564	ASIC and FPGPA Design with Verilog		
ECE 570	Computer Networks		

ECE 573	Internet Protocols		
ECE 584	Electric Power Engineering Practicum II		
ECE 592-601/651	Python in Engineering		
ECE 773	Advanced Topics in Internet Protocols		
Industrial & Systems Engineering (courses only)			
ISE 501	Introduction to Operations Research		Asynchronous streaming media
ISE 515	Manufacturing Process Engineering		
ISE 535	Python Programming for Industrial &		
ISE 716	Automated Systems Engineering		
Materials Sciences and Engineering (courses only)			
MSE 500	Modern Concepts in Materials Science		Asynchronous streaming media
MSE 555	Polymer Technology and Engineering		
MSE 556	Composite Materials		
<i>These courses are offered asynchronously and utilize WEB accessible streaming or CDROMs delivered to the student. For updates on asynchronous courses go to: http://EngineeringOnline.ncsu.edu.</i>			
<i>*Synchronous (live) course received or delivered from NIA.</i>			
<i>X Course instructor on-site at NIA</i>			
NORTH CAROLINA A&T UNIVERSITY			
Computer Engineering			
TBD			
Electrical Engineering			
<i>*Synchronous (live) course received or delivered from NIA.</i>			
OLD DOMINION UNIVERSITY			
Aerospace Engineering (MS and PhD)			
NIA received or web delivery			
MAE 795/895 (Dates: 5/18/2021 - 8/6/2021)	Mars Aerodynamics	Britcher	TR 2:00pm-3:40pm*
<i>*Synchronous (live) course received on student desktop or laptop</i>			
UNIVERSITY OF MARYLAND - NO SUMMER COURSES BEING OFFERED FOR 2021			
Aerospace Engineering (MS and PhD) These courses are currently on UMD's schedule to be offered as distance courses			

Aerospace Engineering (MS and PhD) These courses are currently NOT SCHEDULED but UMD will consider offering these as distance course			
* Synchronous (live) course received or delivered from NIA XCourse instructor on-site at NIA			
UNIVERSITY OF VIRGINIA			
Civil Engineering			
CE 5500	Forensic Structural Engineering	Gomez	Asynchronous
CE 5500	Construction Planning, Scheduling, and	Duran	Asynchronous
CE 5500	Civil Design & Management	Pennetti	Asynchronous
CE 6440	Advanced Transportation Systems	Smith	Asynchronous
Mechanical and Aerospace Engineering (MS and PhD)			
MAE 6230	Vibrations	Smith	Asynchronous
*Synchronous (live) course received on student desktop or laptop			
VIRGINIA TECH NO SUMMER COURSES BEING OFFERED FOR 2021			
Aerospace and Ocean Engineering (MS and P.D)			
Electrical Computer Engineering (MS and PhD)			
Materials Science and Engineering (MS and Ph.)			
Mechanical Engineering (MS and PhD)			
# Courses are available for graduate credit course received or delivered from NIA		*Synchronous (live) XX ONLINE course. Primarily	

received at desktop.

***Synchronous (live) course delivered at the Peninsula Graduate Center
All VT AOE, ESM, MSE and ME courses are delivered at NIA Headquarters.*

X Course instructor on-site at NIA.