<table>
<thead>
<tr>
<th>Course Instructor</th>
<th>Course Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Courses taught on HU campus</em></td>
<td>Aerospace Engineering (MS and PhD)</td>
<td>TBD</td>
</tr>
<tr>
<td><em>Synonym (live) course received or delivered from NIA.</em></td>
<td>GEORGIA TECH</td>
<td>TBD</td>
</tr>
<tr>
<td><em>Courses taught on HU campus</em></td>
<td>NORTH CAROLINA STATE UNIVERSITY</td>
<td>TBD</td>
</tr>
<tr>
<td><em>Synonym (live) course received or delivered from NIA.</em></td>
<td>NORTH CAROLINA A&amp;T UNIVERSITY</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Electrical and Computer Engineering (courses only)</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Electrical Engineering</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Industrial &amp; Systems Engineering (courses only)</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Materials Sciences and Engineering (courses only)</td>
<td>TBD</td>
</tr>
</tbody>
</table>

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](http://EngineeringOnline.ncsu.edu).

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

*X Course instructor on-site at NIA*
### OLD DOMINION UNIVERSITY

#### Engineering Mathematics
- **Course Code**: ECE 6504
- **Title**: Engineering Mathematics
- **Instructor**: Koliris
- **Schedule**: TR 7:10pm-9:50pm

#### Dielectrics, Electronic Oxides
- **Course Code**: ECE 6504
- **Title**: Dielectrics, Electronic Oxides
- **Instructor**: Newman
- **Schedule**: MW 11:00am-12:15pm

#### Traffic Operations
- **Course Code**: ECE 6504
- **Title**: Traffic Operations
- **Instructor**: Landman
- **Schedule**: TR 4:20pm-5:35pm

#### Solid State Devices
- **Course Code**: ECE 6504
- **Title**: Solid State Devices
- **Instructor**: Bayati
- **Schedule**: TR 10:00am-12:00pm

#### Nanoscale Mechanical and Structural Properties of Materials
- **Course Code**: ECE 6504
- **Title**: Nanoscale Mechanical and Structural Properties of Materials
- **Instructor**: Elmastafa
- **Schedule**: MW 11:00am-12:15pm

#### Robots and Manufacturing Automation
- **Course Code**: ECE 6504
- **Title**: Robots and Manufacturing Automation
- **Instructor**: Huang
- **Schedule**: TR 1:00pm-2:15pm

#### Satellite Remote Sensing
- **Course Code**: ECE 6504
- **Title**: Satellite Remote Sensing
- **Instructor**: Bemath
- **Schedule**: MW 9:30am-10:45pm

### UNIVERSITY OF MARYLAND

#### Aerospace Engineering (MS and PhD)
- **Course Code**: AE 6504
- **Title**: Aerospace Engineering (MS and PhD)
- **Instructor**: These courses are currently on UMD's schedule to be offered as distance courses.
- **Schedule**:
  - ENAE 602: Helicopter Dynamics I
  - ENAE 605: Smart Structures
  - ENAE 664: Computational Fluid Dynamics I
  - ENAE 686: Selected Topics: Estimation and Control of Stochastic Systems

#### Aerospace Engineering (MS and PhD) These courses are currently NOT SCHEDULED but UMD will consider offering these as distance courses if there is interest.
- **Course Code**: AE 6504
- **Title**: Aerospace Engineering (MS and PhD)
- **Instructor**: These courses are currently NOT SCHEDULED but UMD will consider offering these as distance courses if there is interest.
- **Schedule**:
  - ENAE 603: Near Earth Object Exploration
  - ENAE 609: Nanoscale Mechanical and Structural Properties of Materials
  - ENAE 686: Advanced Space Systems Design
  - ENAE 786P: Analysis of Structural Elements

### UNIVERSITY OF VIRGINIA

#### Civil Engineering
- **Course Code**: CE 5601 (Section 600, Class Number 18801)
- **Title**: Mgmt Large-Scale Construction
- **Instructor**: Heydarian
- **Schedule**: TR 2:00pm-3:15pm

#### Electrical and Computer Engineering (MS and Ph.D.)
- **Course Code**: ECE 6504
- **Title**: Electrical and Computer Engineering (MS and Ph.D.)
- **Instructor**:
  - CE 5200: Introduction to GIS
  - CE 5320: Reinforced Concrete Design
  - CE 5460: Topics in Structural Engineering
  - CE 5603: Green Engineering & Sustainability
  - CE 5625: Remote Sensing for Environmental Engineers

#### Chemical Engineering (courses only)
- **Course Code**: CHE 5662 (Section 600, Class Number 18668)
- **Title**: Transport Processes
- **Instructor**: Lazzara
- **Schedule**: TR 3:30pm-4:45pm

#### Civil, Mechanical, and Aerospace Engineering (MS and PhD)
- **Course Code**: CE 6625 (Section 600, Class Number 18668)
- **Title**: Transport Processes
- **Instructor**: Lazzara
- **Schedule**: TR 3:30pm-4:45pm

#### Electrical and Computer Engineering (MS and Ph.D.)
- **Course Code**: ECE 6625 (Section 600, Class Number 18668)
- **Title**: Transport Processes
- **Instructor**: Lazzara
- **Schedule**: TR 3:30pm-4:45pm

#### Materials Sciences and Engineering (MS and PhD)
- **Course Code**: MSE 6120 (Section 600, Class Number 18745)
- **Title**: Characterization of Materials
- **Instructor**: Ghosh
- **Schedule**: TR 2:00pm-3:15pm

#### Mechanical and Aerospace Engineering (MS and PhD)
- **Course Code**: MAE 6504 (Section 600, Class Number 18801)
- **Title**: Mgmt Large-Scale Construction
- **Instructor**: Heydarian
- **Schedule**: TR 2:00pm-3:15pm

#### Engineering Physics (MS and Ph.D.)
- **Course Code**: MSE 6620 (Section 600, Class Number 18668)
- **Title**: Transport Processes
- **Instructor**: Lazzara
- **Schedule**: TR 3:30pm-4:45pm

#### Systems Engineering (MS and Ph.D.)
- **Course Code**: SYS 6851 (Section 600, Class Number 17561)
- **Title**: Principles of Modeling for Cyber Physical Systems
- **Instructor**: Behl
- **Schedule**: TR 2:00pm-3:15pm

### VIRGINIA TECH

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5074
- **Title**: Adv Ship Structural Analysis
- **Instructor**: CM Gilbert
- **Schedule**: On-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5100
- **Title**: Adv Aer Hydrodynamics
- **Instructor**: CM Gilbert
- **Schedule**: On-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5124
- **Title**: Aeronautics and Propulsion
- **Instructor**: KT Lowe
- **Schedule**: On-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5174
- **Title**: Info to Plasma Science
- **Instructor**: C Adams
- **Schedule**: On-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5304
- **Title**: Advanced Naval Architecture
- **Instructor**: S Shkolnik
- **Schedule**: On-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5314
- **Title**: Naval & Maritime Engry Sys Design
- **Instructor**: AJ Brown
- **Schedule**: Off-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5324
- **Title**: Principles of Naval Engr w/App
- **Instructor**: A Brown
- **Schedule**: Off-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5344
- **Title**: Adv Info-Comp Fluid Dynamics
- **Instructor**: SS Choi
- **Schedule**: On-line course

#### Aerospace and Ocean Engineering (MS and Ph.D.)
- **Course Code**: AOE 5774
- **Title**: Nonlinear Systems Theory
- **Instructor**: C Sultan
- **Schedule**: On-line course

#### Electrical and Computer Engineering (MS and Ph.D.)
- **Course Code**: ECE 5105
- **Title**: Electromagnetic Waves
- **Instructor**: M Manteghi
- **Schedule**: On-line course

#### Electrical and Computer Engineering (MS and Ph.D.)
- **Course Code**: ECE 5174
- **Title**: Introduction to Plasma Science
- **Instructor**: C Adams
- **Schedule**: On-line course

#### Electrical and Computer Engineering (MS and Ph.D.)
- **Course Code**: ECE 5194
- **Title**: Remote Sensing Prin & Tech
- **Instructor**: ES Lind
- **Schedule**: MW 11:00am-11:50am
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Time</th>
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<tbody>
<tr>
<td>ECE 5204</td>
<td>Power Semiconductor Devices</td>
<td>Y Zhang</td>
<td>MWF 1:25pm-2:15pm</td>
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<tr>
<td>ECE 5234</td>
<td>EM Noise Reduction</td>
<td>D Dong</td>
<td>MW 4:00pm-5:15pm</td>
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<tr>
<td>ECE 5234</td>
<td>Power Conv Mod &amp; Cont</td>
<td>Q Li</td>
<td>TR 3:30pm-4:45pm</td>
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<tr>
<td>ECE 5314</td>
<td>Pwr Sys Oper and Ctrl</td>
<td>V Ketatios</td>
<td>TR 11:00am-12:15pm</td>
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<tr>
<td>ECE 5424G</td>
<td>Advanced Machine Learning</td>
<td>YJ Wang</td>
<td>TR 12:30pm-1:45pm</td>
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<tr>
<td>ECE 5480</td>
<td>Cybersecurity and the IoT</td>
<td>KE Giles</td>
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<td>ECE 5484</td>
<td>Fundamentals Computer Systems</td>
<td>SF McDrife</td>
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<td>ECE 5485</td>
<td>Networks and Protocols</td>
<td>PM Athanas</td>
<td>On-line course</td>
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<tr>
<td>ECE 5504</td>
<td>Computer Architecture</td>
<td>JM Paul</td>
<td>On-line course</td>
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<tr>
<td>ECE 5510</td>
<td>Multiprocessor Programming</td>
<td>B Ravindran</td>
<td>TR 12:30pm-1:45pm</td>
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<tr>
<td>ECE 5554</td>
<td>Computer Vision</td>
<td>CF Jones</td>
<td>TR 6:30pm-7:45pm</td>
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<tr>
<td>ECE 5560</td>
<td>Fundamentals of Info Security</td>
<td>J Park</td>
<td>T 3:30pm-6:15pm</td>
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<tr>
<td>ECE 5565</td>
<td>Network Arch and Protocols</td>
<td>H Wang</td>
<td>TR 11:00am-12:15pm</td>
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<tr>
<td>ECE 5585</td>
<td>IT Security and Trust</td>
<td>RC Mathany</td>
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<td>ECE 5605</td>
<td>Stochastic Signals and Systems</td>
<td>HS Dhillon</td>
<td>TR 12:30pm-1:45pm</td>
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<td>ECE 5635 (CRN 83226)</td>
<td>Radar Systems Design</td>
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<td>MW 5:30pm-6:45pm</td>
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<td>ECE 5635 (CRN 83227)</td>
<td>Radar Systems Design</td>
<td>JM</td>
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<tr>
<td>ECE 5754</td>
<td>Nonlinear Systems Theory</td>
<td>SC</td>
<td>On-line course</td>
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<tr>
<td>ECE 5774</td>
<td>Nonlinear Systems Theory</td>
<td>C Sultan</td>
<td>On-line course</td>
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<tr>
<td>MSE 5114</td>
<td>Materials Characterization</td>
<td>MJ Kelley</td>
<td>MW 12:30pm-1:45pm</td>
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<tr>
<td>ME 5104</td>
<td>Thermodynamics: Found/Applications</td>
<td>MR von</td>
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<td>ME 5135</td>
<td>Vehicle Propulsion</td>
<td>JT Lowe</td>
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<tr>
<td>ME 5404</td>
<td>Fluid Dynamics</td>
<td>JA Palmore</td>
<td>On-line course</td>
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<td>ME 5434</td>
<td>Adv Intro Comp Fluid Dynamics</td>
<td>SS Choi</td>
<td>On-line course</td>
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<td>ME 5544</td>
<td>Linear Systems Theory</td>
<td>AM Boker</td>
<td>TR 11:00am-12:15pm</td>
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<td>ME 5554</td>
<td>Applied Linear Systems</td>
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<td>Nonlinear Systems Theory</td>
<td>C Sultan</td>
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<tr>
<td>ME 5634</td>
<td>Fin Elem in Mach Des</td>
<td>RL West</td>
<td>On-line course</td>
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</tbody>
</table>

# Courses are available for graduate credit

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

**Synchronous (live) course delivered at the Peninsula Graduate Center.

*NIA ONLINE course. Primarily received at desktop.

XX ONLINE course. Primarily received at desktop.

All VT AOE, ESM, MSE and ME courses are delivered at NIA Headquarters.