Disaster Resilient Policy, Engineering and Design (Certificate)

Certificates are opportunities to add a specialization to a graduate degree in architecture. The areas of specialization offered by the School of Architecture reflect faculty depth in a particular area of inquiry. Interested students should apply to the certificate program before their last semester. The certificates are also available to non-degree seeking students.

More Information

Disaster Resilient Policy, Engineering and Design Program Website (https://design.ncsu.edu/admissions/certificates/disaster-resilient-ped/)

Applicants to the Graduate Certificate in Disaster Resilient Policy, Engineering and Design must complete an application form to be considered for the program provided below. New applications will be reviewed at the department/program level.

Applicant Information

• Delivery Method: On-Campus

Entrance Exam: NoneInterview Required: None

Application Deadlines

Please visit The Graduate School Application Deadlines (https://grad.ncsu.edu/admissions/deadlines/) page for more information.

Plan Requirements

Code	Title	Hours
Core Courses		7
LAR 552	Survey of Natural Hazards and Disasters	
LAR 554	Disaster Resilient Policy, Engineering and Design	gn
LAR 607	Natural Hazards, Disasters and Climate Change Adaptation Lecture Series)
Track Courses		6
Select one of the focus tracks listed below		
Total Hours		13

Policy Track

Code Title Hours
Select a minimum of two of the following courses in conjunction 6
with the academic committee: 1

PA 553	Disaster, Crisis and Emergency Management and Policy
PA 507	The Public Policy Process
PA 511	Public Policy Analysis
PA 798	Special Topics in Public Administration and Policy (Collaborative Governance and Public Networks)
PA 550	Environmental Policy

PA 546	Seminar in Program Evaluation
PA 514	Management Systems

Other PA courses as identified (including special topics, field study-see, for instance, firechasers program) subject to approval of instructor and track coordinator

Design Track

Code Title Hours
Select a minimum of two of the following courses in conjunction 6
with the academic committee: 2

with the academic committee:		
ARC 503	Advanced Architectural Design (Series) 3,4,5	
or LAR 507	Advanced Topics Studio in Landscape Architecture and Environmental Planning	
LAR 545	City Planning and Design - Building Great Communities	
LAR 546	The Landscape Imperative	
LAR 535	Environmental Social Equity and Design	
LAR 547	Greenway Planning and Design	
LAR 520	Environment and Culture	
LAR 582	Special Topics In Landscape Architecture (Design for Resilient Food Systems)	
or ARC 590	Special Topics in Architecture	
	Chariel Tanica In Landagena Architecture	
LAR 582	Special Topics In Landscape Architecture	
LAR 582 LAR 630	Independent Study	
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LAR 630	Independent Study	
LAR 630 ARC 590	Independent Study Special Topics in Architecture (Resilient Thinking)	
LAR 630 ARC 590 ARC 520	Independent Study Special Topics in Architecture (Resilient Thinking) Sustainable Architecture	
LAR 630 ARC 590 ARC 520 ARC 548	Independent Study Special Topics in Architecture (Resilient Thinking) Sustainable Architecture Vernacular Architecture Public Interest Design Seminar: Case Studies and	
LAR 630 ARC 590 ARC 520 ARC 548 ARC 563	Independent Study Special Topics in Architecture (Resilient Thinking) Sustainable Architecture Vernacular Architecture Public Interest Design Seminar: Case Studies and Current Issues	

- Other LAR and/or ARC courses as identified subject to approval of instructor and track coordinator.
- $^{\rm 3}\,$ Subject to topical area and approval by the Certificate Coordinator.
- Non-ARC/LAR students are subject to approval of studio instructors and these student may seek to take ARC 503/LAR 507 as a 3-credit hour course (focused on specific class sub-tasks that do not require design studio training/education).
- ⁵ ARC students are subject to a lottery to get into studios.

Construction, Civil and Environmental Engineering Track

Code Title Hours

Select a minimum of two of the following courses in conjunction 6 with the academic committee: 6

CE 746	Soil Dynamics and Earthquake Engineering
CE 581	Fluid Mechanics in Natural Environments
CE 596	Special Topics in Water Resource and Environmental Engineering (Coastal Hydrodynamics)
CE 596	Special Topics in Water Resource and Environmental Engineering (Coastal Modeling)
CE 567	Risk and Financial Management in Construction

CE 578	Energy and Climate
CE 583	Engineering Aspects Of Coastal Processes
CE 725	Earthquake Structural Engineering
CE 786	Hydroclimatology
CE 790	Advanced Topics In Civil Engineering
MEA 517	Fundamentals of Climate Change Science
MEA 593	Special Topics in Atmospheric Science (Fundamentals of Climate Change Science)
MEA 593	Special Topics in Atmospheric Science (Climate Risk Analysis for Adaptation)
MEA 519	Barriers to Climate Change Literacy
COM 538	Risk Communication
COM 579	Climate Change Communication
COM 566	Seminar In Crisis Communication

Other CE courses as identified – subject to approval of instructor and track coordinator.