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: None
- Interview Required: None

Application Deadlines

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

Plan Requirements

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

Policy Track

Code Select a minimum following course with the academ	es in conjunction	Hours 6	Counts towards
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		

¹ 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

Codo	Title	Hours	Counts towards
CodeTitleSelect a minimum of two of the following courses in conjunction with the academic committee: 2		6	Counts towards
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		

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LAR 520 LAR 582	Environment and Culture Special Topics In Landscape Architecture (Design for Resilient Food	CE 596	Special Topics in Water Resource and Environmental Engineering (Coastal Hydrodynamics)
	Systems)	CE 596	Special Topics
or ARC 59	20 Special Topics in Architecture		in Water
LAR 582	Special Topics In Landscape Architecture		Resource and Environmental Engineering (Coastal
LAR 630	Independent Study		Modeling)
ARC 590	Special Topics in Architecture (Resilient Thinking)	CE 567	Risk and Financial Management in Construction
ARC 520	Sustainable Architecture	CE 578	Energy and Climate
ARC 548	Vernacular Architecture	CE 583	Engineering Aspects Of Coastal
ARC 563	Public Interest		Processes
	Design Seminar: Case Studies and Current Issues	CE 725	Earthquake Structural Engineering
ARC 544	American City	CE 786	Hydroclimatology
ARC 590	Planning History Special Topics in Architecture	CE 790	Advanced Topics In Civil Engineering
instructor and	d/or ARC courses as identified – subject to approval of track coordinator.	MEA 517	Fundamentals of Climate Change Science

³ Subject to topical area and approval by the Certificate Coordinator.

4 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 Counts towards
following cou	mum of two of the urses in conjunction emic committee: ⁶	6
CE 746	Soil Dynamics and Earthquake Engineering	
CE 581	Fluid Mechanics in Natural Environments	

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

 $^{\rm 6}\,$ Other CE courses as identified – subject to approval of instructor and track coordinator.