

Nuclear Nonproliferation Science and Policy (Certificate)

The objective of the program is to educate students about nuclear nonproliferation, safeguards, and security from both the global and the technical perspectives. Students will be exposed to state-of-the-art techniques and will develop an understanding of the technical and policy challenges to maintain and support a robust nuclear nonproliferation regime. This process will be supported by assignments designed to reinforce understanding of the individual subject areas covered, class projects which cover key areas such as proliferation case studies and physical security simulations, as well as interactions with subject matter experts in nuclear nonproliferation technology and policy.

More Information

Nuclear Nonproliferation Science and Policy Program Website (<https://spia.chass.ncsu.edu/graduate/nuclear-certificate/>)

This certificate program is open to degree-seeking students at NC State, students at other higher education institutions and post-graduate professionals seeking to expand their education credentials.

Applicants must hold a bachelor's degree. Certificate students must meet prerequisites for all certificate courses they enroll in. Both Non-Degree Studies (NDS) (<http://registrar.ncsu.edu/nds/>) and NC State degree-seeking students are accepted to this certificate program. Current NC State degree students should contact the program director for application information.

Applicant Information

- **Delivery Method:** On-Campus, Online, Hybrid
- **Entrance Exam:** None
- **Interview Required:** None

Application Deadlines

This certificate program has rolling admissions

Plan Requirements

Code	Title	Hours
Nuclear Engineering Courses		6
Select two courses from the following:		
NE 501	Reactor Analysis and Design	
NE 504	Radiation Safety and Shielding	
NE 505	Reactor Systems	
NE 512	Nuclear Fuel Cycle	
NE 520	Radiation and Reactor Fundamentals	
NE 521	Principles of Radiation Measurement	
NE 541	Nuclear Nonproliferation Technology and Policy	
NE 723	Neutron Transport Theory	
NE 751	Nuclear Reactor Design Calculations	
NE 770	Nuclear Radiation Attenuation	
NE 795	Advanced Topics In Nuclear Engineering I	

Political Science/Public Administration Courses		6
PA 507	The Public Policy Process	
PA 511	Public Policy Analysis	
PS 531	International Law	
PS 532	Seminar in Global Governance	
PS 533	Global Problems and Policy	
PS 539	International Political Economy	
PS 560	Nuclear Nonproliferation Policy & Process	
PS 561	Nuclear Strategy and Nonproliferation	
PS 598	Special Topics In Political Science (Science, Technology, & International Security)	
PS 598	Special Topics In Political Science (Illicit Political Economy)	
Total Hours		12