

Regulatory Science in Agriculture (Certificate)

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

Regulatory Science is a field critical to the advancement of responsible technologies for agriculture from concept, through research and development, to commercialization, and through a technology's life. The Undergraduate Certificate in Regulatory Science in Agriculture is an interdisciplinary certificate bringing together science and policy. Students will learn the science, techniques, and policies underpinning agriculture regulation as well as risk management, compliance, data assessment, and regulatory communications.

Application and Registration

To qualify for admission to the Undergraduate Certificate in Regulatory Science in Agriculture, students must be currently enrolled in a BS degree in either agriculture, food or life science, or as a Non-Degree Studies (NDS) student. Students must have a 3.0 grade point average in their BS degree at the time of application.

Contact Person

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Undergraduate Certificate Completion

- Students must complete fifteen (15) hours of coursework and have a minimum of 3.0 grade point average (GPA) on all certificate coursework. The minimum grade to receive certificate credit can be no lower than B-. Students do not have the option of taking the courses for 'credit only' if they intend for the course to be part of the undergraduate certificate.
- Transfer credit from other institutions is not allowed for the undergraduate certificate. All course work must be registered through NC State University.
- Up to twelve (12) hours of non-degree studies (NOS) coursework, if not already used in another program, may be transferred into the Undergraduate Certificate. All coursework must carry a grade of B- or better.
- Up to twelve (12) hours of coursework taken while in another undergraduate program at NC State may be applied towards the Undergraduate Certificate. All such coursework must carry a grade of B- or better.
- All certificate requirements must be completed within four (4) calendar years, beginning with the date that the student commences courses applicable to the certificate, unless a more restrictive time limit has been established by the program or academic college/ school.
- A student may obtain more than one certificate. Each certificate must have a least nine (9) credit hours that are unique to it.

Academic Requirements for Participants

Code	Title	Hours	Counts towards
Required Core Courses		6	
CS 418	Introduction to Regulatory Science in Agriculture		
CS 428	Advanced Regulatory Science in Agriculture		

These courses were co-developed with industry partners, with a goal of bringing Regulatory Science topics front of mind for students in the field of agricultural science. In the areas of crop protection chemistry, agricultural biotechnology, and biological-based products, topics covered included: regulatory framework, policies, bio-politics, safety assessments, stewardship, compliance and a myriad of other topics.

Code	Title	Hours	Counts towards
Elective Courses		9	
BCH 220	Role of Biotechnology in Society		
BCH 351	General Biochemistry		
BCH 451	Principles of Biochemistry		
BCH 452	Introductory Biochemistry Laboratory		
BCH 453	Biochemistry of Gene Expression		
BEC 475	Global Regulatory Affairs for Medical Products		
CH 315	Quantitative Analysis		
CH 316	Quantitative Analysis Laboratory		
CH 415	Analytical Chemistry II		
ENG 331	Communication for Engineering and Technology		
	or ENG 333 Communication for Science and Research		
ES 400	Analysis of Environmental Issues		
ET 310	Environmental Monitoring and Analysis		

LPS 425	Leadership in the Public & Nonprofit Sectors Capstone
MT 381	Medical Textile and the Regulatory Environment
NR 484	Environmental Impact Assessment
PB 480	Introduction to Plant Biotechnology
PS 310	Public Policy
PS 314	Science, Technology and Public Policy
PS 335	International Law
PS 433	Global Problems and Policies
SSC 200	Soil Science
TOX 401	Principles of Toxicology
TOX 415	Environmental Toxicology and Chemistry