Regulatory Science in Agriculture (Certificate)

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

Undergraduate Programs Office
Crop & Soil Sciences Department
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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
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
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	Ecotoxicology	