UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY

Catalog Year 2026-2027

Agricultural and Health Biotechnology MINOR

CATALOG STATEMENT: This interdepartmental minor provides students with an in-depth, multidisciplinary education in the field of biotechnology. The minor will prepare students for advanced studies and career development in applied molecular biology, as well as agricultural and health biotechnology.

REQUIREMENTS: Students must complete a minimum of 14 credits from the courses listed below. This includes one core course (Group A), a minimum of three laboratory credits (Group B), and six credits of discipline-based fundamental courses (Group C).

Group A – Core Courses: at least ONE course below:

Dept.	No.	Course Title	Credits
PLSC	□ 3230	Biotechnology – Science, Applications, Impact, Perception	3
ANSC	□ 3323	Animal Embryology and Biotechnology	3

Group B – Laboratory Modules: at least THREE credits below:

Dept.	No.	Course Title	Credits
PATH	□ 3501	Diagnostic Techniques for the Biomedical Sciences	2
PATH	□ 4000	Bioinformatics in Molecular Epidemiology of Infectious Diseases	3
PLSC	□ 3210	Molecular Laboratory Technology	3
PLSC	□ 3255	Modern and Traditional Plant Breeding Techniques	3
_____	□ _____	Independent Study* OR Internship*	_____

**Independent study and internship can be taken using the department's course numbers. The topic of these studies must be laboratory-based, focused on some aspect of agricultural or health biotechnology and be approved by the departmental minor advisor (a syllabus must be submitted). No more than three-credits can be used from this group. The same course cannot count toward more than one group.*

Group C – discipline-based fundamental courses: at least SIX credits from the courses listed below:

Dept.	No.	Course Title	Credits
AHS	□ 3005	Biostatistics for Health Professions	3
AHS	□ 3060	Healthcare Genetics and Genomics	3
ANSC	□ 3272	Laboratory Animal Science	3
ANSC	□ 3318	Probiotics and Prebiotics	3
ANSC	□ 3641	Animal Food Products: Dairy Technology	3
ANSC	□ 5619	Signaling Pathways	3
DGS	□ 3226	Current Genetic Research	_____
KINS	□ 4500	Exercise Physiology	3
KINS	□ 4510	Advanced Topics in Health and Sport Performance	3
KINS	□ 6094	Seminar	_____
KINS	□ 6520	Thermal Physiology	3
NUSC	□ 3233	Food Composition and Preparation	3

NUSC	□ 4236	Nutritional Biochemistry and Metabolism	4
NUSC	□ 4250	Nutrition for Exercise and Sport	3
NUSC	□ 4260	Dietary Supplements and Functional Foods	3
PATH	□ 3700	Emerging Infectious Diseases and Pandemics	3
PATH	□ 5202	Viral Pathogenesis	3
PATH	□ 5401	Immunobiology	4
PATH	□ 5503	Molecular Approaches to Disease Diagnosis and Prevention	2
PATH	□ 5632	Vaccines: Mechanisms of Immune Protection	3
PLSC	□ 3210	Molecular Laboratory Technology	3
PLSC	□ 3245	Plant Breeding and Biotechnology	3
PLSC	□ 3255	Modern and Traditional Plant Breeding Techniques	3
PLSC	□ 4210	Plant Physiology: How Plants Work	3

Requirements:

- The same course cannot count toward more than one group.
- Students must earn a grade of "C" (2.0) or higher in each individual course listed above or an S for an S/U course.
- Students must earn a combined Grade Point Average of 2.5 or higher for all courses listed above.
- Students must complete all requirements for a baccalaureate degree. Once the minor has been declared, it will appear on the student's transcript.
- No more than 3 credits of independent study or internship course work can be used for Group B.

DECLARATION PROCEDURE: Students who wish to declare the minor prior to graduation must submit the CAHNR MINOR DECLARATION FORM, available on the Forms page of the CAHNR Undergraduate Academic Programs website. It is strongly encouraged that students meet with the minor advisor before declaring the minor.

APPROVAL: A plan of study for the minor signed by the department or program head, director, or faculty designee must be submitted to the Office of the Registrar via the Student Administration System during the first four weeks of the semester in which the student expects to graduate. For instructions, consult the UConn Knowledgebase.

Agricultural and Health Biotechnology Minor Advisors

If you are interested in learning more about the minor in Agricultural Biotechnology or discussing course selection for the minor, please contact any of the departmental contacts noted below. All substitutions for minors in the College of Agriculture, Health, and Natural Resources must be approved at the Dean's level. For all other questions related to the minor, please see either Professors Cindy Tian or Gerald Berkowitz.

Allied Health Sciences	Paula McDowell	paula.mcdowell@uconn.edu
Animal Science	**Cindy Tian**	**xiuchun.tian@uconn.edu**
Kinesiology	Elaine Lee	elaine.c.lee@uconn.edu
Nutritional Sciences	Yangchao Luo	yangchao.luo@uconn.edu
Pathobiology and Veterinary Sciences	Paulo Verardi	paulo.verardi@uconn.edu
Pathobiology and Veterinary Sciences	Guillermo Risatti	guillermo.risatti@uconn.edu
Plant Science and Landscape Architecture	**Gerald Berkowitz**	**gerald.berkowitz@uconn.edu**
Plant Science and Landscape Architecture	Yi Li	yi.li@uconn.edu