

Food and Nutrition Sciences Major - Bachelor of Science (BS)

Major requirements

(All colleges)

41 credits (63 total credits including BIO, CHM, MIC and MTH requirements)

Code	Title	Credits
Core requirements (17 credits)		
FNS 100	Careers in Nutrition, Food Science, and Food Systems	1
FNS/NUT 200	Human Nutrition	3
FNS/NUT 300	Lifecycle Nutrition	3
FNS 310	Food Systems and Security	3
FNS 410	Food Safety	3
FNS 420	Food Science	3
FNS 491	Food and Nutrition Sciences Capstone	1
Electives (24 credits)		
College of Science and Health (CSH)		
Select at least eight credits from the following:		8
BIO 212	Biology of Health and Disease	
BIO 304	Plant Biology	
BIO 306	Genetics	
BIO 312	Human Anatomy and Physiology I	
BIO 313	Human Anatomy and Physiology II	
BIO 330	Economic Botany	
BIO 412	Mycology	
BIO 428	Advanced Nutrition for the Health Professions	
BIO 437	Plant Growth and Development	
BIO 440	Bioinformatics	
BIO 442	Plant Microbe Interactions	
BIO 447	Standard Methods/Quality Assurance Water Analyses	
CHE 370	Motivational Interviewing for Health Educators	
CHE 450	Implementation, Administration, and Evaluation of Health Education Programs	
CHM 300	Fundamental Organic Chemistry	
or CHM 303	Organic Chemistry Theory I	
CHM 301	Analytical Chemistry	
CHM 302	Fundamental Organic Chemistry Laboratory	
or CHM 305	Organic Chemistry Laboratory	
CHM 304	Organic Chemistry Theory II ¹	
CHM 325	Fundamental Biochemistry	
or CHM 417	Biochemistry I: Macromolecules	
CHM 418	Biochemistry II: Metabolism and Genetic Information ²	
ESS 323	Nutrition and Sport	
ESS 440	Advanced Sport Nutrition	

FNS/NUT 350	Functional Foods, Herbs, and Supplements	
FNS 450	Field Experience in Food and Nutrition Sciences	
FNS 479	Food and Nutrition Teaching Assistant	
FNS 499	Food and Nutrition Research	
GEO 427	Sustainable Water Resource Management	
HED 320	The U.S. Health Care System	
HED 474	Nutrition Education	
MIC 380	Food Microbiology	
MIC 427	Industrial and Fermentation Microbiology	
MIC 428	Fermentation Microbiology Laboratory	
PH 340	Epidemiology and Human Disease Prevention	
PHY 103	Fundamental Physics I	
PHY 104	Fundamental Physics II	
College of Arts, Social Sciences, and Humanities (CASSH)/College of Business Administration (CBA)		
Select at least three credits from the following:		3
ANT 366	Anthropology of Food	
ECO 350	Health Economics	
ENV 303	Topics in Environmental Studies (Topic - Food, Culture and the Environment)	
ENV 304	Topics in Environmental Justice (Topic - Feeding the Planet: Environmental Justice of Our Food Systems)	
ENG 309	Writing in the Sciences	
ENG 315	Rhetoric, Health, and Medicine	
MKT 309	Principles of Marketing	
PHL 330	Philosophy of Food: The Dining Experience	
PSY 315	Behavior Modification	
PSY 334	Health Psychology	
PSY 426	Addictive Behaviors	
SOC 380	Fat Studies and Body Politics	
Select an additional 13 credits of electives from the CSH, CASSH, and CBA lists above.		13
Math requirement		
STAT 145	Elementary Statistics	4
Science Requirements		
BIO 105	General Biology	4
CHM 103	General Chemistry I	5
CHM 104	General Chemistry II	5
MIC 230	Fundamentals of Microbiology	4
Total Credits		63

¹ Prerequisite: CHM 303.

² Prerequisite: CHM 417.

Degree requirements

All students must complete the general education, college core (waived for nuclear medicine technology majors), major/minor, and university degree requirements in order to qualify for a degree. The easiest way to track all of these requirements is to refer to the Advisement Report (AR) found in the Student Information System (WINGS) Student Center. All enrolled students have access to the AR.

- General education (<http://catalog.uwlax.edu/undergraduate/generaleducation/>)
- Baccalaureate degree requirements (p. 2)

Baccalaureate degree requirements

Candidates for the Bachelor of Arts or the Bachelor of Science degrees must accomplish the following:

1. Fulfill the general education requirements.
2. Complete at least one ethnic studies (diversity) course.
3. Complete the courses prescribed by the Undergraduate Curriculum Committee for the degree desired in the respective school or college.
4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA.^{1,2}
5. At least 40 credits must be earned in 300/400 level courses. Transfer courses earned or transferred at the 300/400 level apply to this requirement.
6. Complete major and minor requirements with at least a 2.00 GPA^{1, 2} in each major and minor (and concentration or emphasis, if selected).
7. A minimum of 30 semester credits in residence at UWL is required for graduation. (See undergraduate resident requirement (<http://catalog.uwlax.edu/undergraduate/academicpolicies/graduation/#undergraduate-residence-requirement>)).
8. Submit an application for graduation via the "Apply for Graduation" link in the WINGS Student Center as soon as the student has registered for his or her final semester or summer term in residence. December and winter intersession graduates should apply by May 1. May and summer graduates should apply by December 1.

¹ Grade point average requirements for some programs will be considerably higher than 2.00. Re-entering students may be required to earn credits in excess of the 120 needed for graduation in any curriculum in order to replace credits earned in courses in which the content has changed substantially in recent years. Each case will be judged on its own merit.

² The grade point average recorded at the time the degree is awarded will not be affected by future enrollment.

No degree will be awarded unless all requirements are fulfilled and recorded within 30 days after the official ending date of each term.

Sample degree plan

Below is a sample degree plan that can be used as a guide to identify courses required to fulfill the major and other requirements needed for degree completion. A student's actual degree plan may differ depending on the course of study selected (second major, minor, etc.). Also, this sample plan assumes readiness for each course and/or major plan, and some courses may not be offered every term. Review the course descriptions or the class timetable (<http://www.uwlax.edu/records/registration/>) for course offering information.

The sample degree plans represented in this catalog are intended for first-year students entering UWL in the fall term. Students should use the Advisement Report (AR) in WINGS (<https://wings.uwlax.edu>) and work closely with their faculty advisor(s) and college dean's office to ensure declaration and completion of all requirements in a timely manner.

General Education Program

The general education curriculum (Gen Ed) is the common educational experience for all undergraduates at UWL. Sample degree plans include Gen Ed placeholders to ensure completion of the general education requirements. Courses may be rearranged to fit the needs or recommendations of the student's program of study. Gen Ed courses

may be taken during winter term (January between the semesters) and summer to reduce the course load during regular terms (fall and spring). Students should consult with their advisor and/or the college academic services director in their college/school for assistance with course and schedule planning. Refer to the general education requirements (<http://catalog.uwlax.edu/undergraduate/generaleducation/>) for more specific details.

At least 40 credits of the 120 credits required must be earned at the 300/400-level.

Note: New students and transfer students with less than 12 credits earned are required to take FYS 100 First-Year Seminar (3 cr.) during one of their first two semesters at UWL.

This sample degree plan does not establish a contractual agreement. It identifies the minimum requirements a student must successfully complete, to qualify for a degree, in a format intended to assist the student in planning their academic career. Actual degree plans may differ.

Year 1		
Fall	Credits Spring	Credits
BIO 105 (Gen Ed Natural Lab Science)	4 FNS 100	1
MTH 150 (Gen Ed Math)	4 FNS 200	3
Gen Ed Arts	2-3 CHM 103 (Gen Ed Natural Lab Science)	5
CST 110 (Gen Ed Literacy-Oral)	3 ENG 110 or 112 (Gen Ed Literacy-Written)	3
FYS 100 (Gen Ed First-Year Seminar)	3 Gen Ed Self & Society	3
	16	15
Year 2		
Fall	Credits Spring	Credits
FNS 300	3 FNS 310	3
CHM 104	5 FNS Elective	4
STAT 145 (Gen Ed Lang/Logical Systems)	4 MIC 230	4
Gen Ed Global Studies	3 Gen Ed Minority Cultures	3
	15	14
Year 3		
Fall	Credits Spring	Credits
FNS 410	3 FNS Elective	4
FNS 420	3 FNS Elective	3
FNS Elective	4 Gen Ed Humanistic Studies	3
University Elective	3 University Elective	3
University Elective	3 Gen Ed Arts	2-3
	16	15
Year 4		
Fall	Credits Spring	Credits
FNS Elective	3 FNS 491	1
FNS Elective	3 FNS Elective	3
University Elective	3 FNS Elective	3
Gen Ed World History	3 University Elective	4
Gen Ed Health & Well-Being	3 University Elective	3
	15	14
Total Credits: 120		