



Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: College of Agriculture

Scientific Department: Food Sciences

Academic or Professional Program Name: Bachelor of Agricultural Sciences/
Food Sciences

Final Certificate Name: Bachelor of Agricultural Sciences/ Food Sciences

Academic System: Bologna

Description Preparation Date: 14/9/2025

File Completion Date: 14/9/2025

Signature:

Head of Department Name:

professor Dr. Adal abd alrahman Aljumaily

Date:

Signature:

Scientific Associate Name:

Professor Dr. Mohammed saleh Mohammed

Date: 14/9/2025



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Approval of the Dean

Dr. Sami Khader Saeed

14/9/2025

Tikrit UNIVERSITY

College of Agriculture



Bachelor's degree in Food science



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1. Mission & Vision Statement

Vision Statement

To be a leading and distinguished department of food science in education, scientific research and community service in the fields of food science development and advancement, contributing to achieving food security and sustainable development in Iraq

Mission Statement

The Department of Food Science at the College of Agriculture, Tikrit University, aims to prepare specialized and qualified scientific personnel possessing modern theoretical knowledge and applied skills in the fields of food and dairy processing, biotechnology, quality control, food and dairy regeneration, human nutrition, and therapeutic nutrition. This contributes to the development of the food sector and supports national food security through education, scientific research, and community service.

The department focuses on integrating academic and practical aspects through field training in laboratories and workshops, encouraging applied research that addresses real-world problems in food science, and fostering ethical and professional values, teamwork, and innovation among students and researchers.

2. Program Specification

Programme code:	ECO – EXT	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Summary of Levels

Academic Year

Preparation Level

Type of Acquired Competency

First Year (Foundational - General)

Basic Knowledge in Agricultural Sciences

Second Year (Specialized - Basic)

Principles of Animal Physiology and Nutrition

Third Year (Applied)

Practical and Field Skills

Fourth Year (Professional and Research)

Advanced Scientific Competence and Professional Independence

3. Program Goals

1. To enable graduates to master the fundamental concepts of food science and nutrition and apply them practically.
2. To develop students' abilities to learn, design, and implement pioneering agricultural projects using modern technologies.
3. To instill in students the values and ethics of the profession.
4. To prepare graduates with strong communication, teamwork, and problem-solving skills.
5. To motivate students to embrace the principles of lifelong learning and methods for developing their educational and professional skills.

4- Student Learning Outcomes

- 1- Comprehensive knowledge of economic concepts and theories related to agriculture, including market analysis, marketing strategies, agricultural policies, financial and monetary policies affecting agricultural finance, economic development in agriculture, and economic feasibility studies.
- 2- Understanding the principles and foundations of agricultural extension and its importance in developing the agricultural sector.
- 3- Understanding how to manage agricultural resources sustainably to improve productivity and efficiency.
- 4- Ability to design and implement effective agricultural extension programs based on the needs of farmers and rural communities.
- 5- Capability to conduct applied scientific studies that contribute to solving agricultural sector problems through data analysis and field research.
- 6- Ability to communicate effectively with farmers and various stakeholders in the agricultural sector, providing guidance and extension services.

5- Academic Staff

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6. Credits, Grading and GPA

Credits

Tikrit University follows Bologna Learning Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME				
Group	Grade		Marks (%)	Definition
Success Group (50 - 100)	A - Excellent		90 - 100	Outstanding Performance
	B - Very Good		80 - 89	Above average with some errors
	C - Good		70 - 79	Sound work with notable errors
	D - Satisfactory		60 - 69	Fair but with major shortcomings
	E - Sufficient		50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX - Fail		(45-49)	More work required but credit awarded
	F - Fail		(0-44)	Considerable amount of work required
Note:				
<p>Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				

Calculation of the Cumulative Grade Point Average (CGPA)

The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [(1^{\text{st}} \text{ module score} \times \text{ECTS}) + (2^{\text{nd}} \text{ module score} \times \text{ECTS}) + \dots] / 24$$

7. Curriculum/Modules

| 30 ECTS Semester 1

Pre-request	نوع المادة Type	الوحدات ECTS	USSWL	SSWL	اسم المادة الدراسية	اسم المادة باللغة الانكليزية	الرمز
	B	٦	78	72	رسم هندسي	Engineering Drawing	AGRFS01
	B	٢	78	72	الديمقراطية وحقوق الانسان	Basics of plant protection	UOT004
	B	٦	78	72	رياضيات	Mathematics	AGRFS03
	C	٧	78	47	كيمياء عامة	General Chemistry	AGRFS04
	B	٧	63	12	مبادئ انتاج حيواني	Principles of Animal Production	AGRFS05
	B	٢	33	17	اللغة الإنكليزية ١	English Language 1	UOT002

| 30 ECTS 2Semester

Pre-request	نوع المادة Type	الوحدات ECTS	USSWL	SSWL	اسم المادة الدراسية	اسم المادة باللغة الانكليزية	الرمز
	C	٧	78	72	كيمياء كمية	Quantitative chemistry	AGRFS06
	B	٢	78	72	اللغة العربية	Arabic Language	UOT001
	B	٣	78	72	1 حاسوب	Computer 1	UOT003
	C	٧	33	17	مبادئ صناعات	Principles of food industr	AGRFS07
	B	٣	78	72	إحصاء	Statistics	AGRFS09
	B	٣	33	17	مبادئ بستنة	Principles of horticulture	AGRFS10
	B	٥	78	72	مبادئ اقتصاد زراعي	Principles of Agricultural Economics	AGRFS08

| 30 ECTS Semester 3

Pre-request	نوع المادة Type	الوحدات ECTS	USSWL	SSWL	اسم المادة الدراسية	اسم المادة باللغة الانكليزية	الرمز
	B	2	97	78	لغة إنكليزية ٢	English Language 2	UOT006
	B	2	72	78	جرائم البعث	Baath crimes	UOT008
	C	6	97	78	تصنيع تمور	Manufacture of dates	AGRFS12
	C	5	47	78	كيمياء فيزيائية	Physical Chemistry	AGRFS13
	C	5	17	33	اساسيات احياء مجهرية	Fundamentals of Microbiology	AGRFS14
	C	5	17	33	منتجات الالبان سائلة	Liquid dairy products	AGRFS15
	C	5	17	33	السلامة والامن البايولوجي	Biosafety and security	AGRFS16

| 30 ECTS Semester 4

Pre-request	نوع المادة Type	الوحدات ECTS	USSWL	SSWL	اسم المادة الدراسية	اسم المادة باللغة الانكليزية	الرمز
	B	٣	72	78	تطبيقات الحاسوب ٢	Computer 2	UOT005
	B	٢	72	78	لغة عربية ٢	Arabic Language 2	UOT007
	C	٦	72	78	مبادئ إحصاء	Principles of statistics	AGRFS17
	C	٦	47	78	إدارة معامل أغذية	Food processing plant management	AGRFS18
	C	٧	72	78	كيمياء حيوية	biochemistry	AGRFS19
	C	6	17	33	هندسة معامل	Laboratory engineering	AGRFS20

8. Contact

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