

### Curriculum for Students Enrolled in the 2024-2025 Academic Year

<b>FIRST SEMESTER</b>				
COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES
MATH 141	Basic Calculus	(3-2) 4	5	
PHYS 121	General Physics I	(3-2) 4	7	
MBG 101	Biology I	(3-0) 3	5	
CHEM 121	General Chemistry I	(3-0) 3	5	
CHEM 141	General Chemistry Lab I	(0-2) 1	2	
ENG 101	Development of Reading and Writing Skills I	(3-0) 3	3	
FE 105	Introduction to Food Engineering	(2-0) 2	3	
	Total Number of Credits in the Semester :	20	30	
<b>SECOND SEMESTER</b>				
COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES
MATH 142	Basic Calculus II	(3-2) 4	6	
PHYS 122	General Physics II	(3-2) 4	8	
CHEM 122	General Chemistry II	(3-0) 3	5	
CHEM 142	General Chemistry Lab. II	(0-2) 1	2	
ENG 102	Development of Reading and Writing Skills II	(3-0) 3	3	
GCC 101	Career Planning and Development	(2+0) 0	2	
FE 104	Fundamentals of Nutrition	(3-0) 3	4	
	Total Number of Credits in the Semester :	18	30	
<b>THIRD SEMESTER</b>				
COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES
MATH 255	Differential Equations	(4-0) 4	6	
CHEM 221	Organic Chemistry	(4-0) 4	5	
CHEM 201	Analytical Chemistry I	(3-0) 3	5	
FE 201	Material and Energy Balances in Engineering	(3-0) 3	5	
FE 211	Basic Programming for Engineers	(2+2) 3	5	
TURK 201	Turkish Language I (NC)	(2-0) Kredisiz	2	
HIST 201	Principles of Atatürk I (NC)	(2-0) Kredisiz	2	
	Total Number of Credits in the Semester :	17	30	
<b>FOURTH SEMESTER</b>				
COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES

FE 202	Fluid Mechanics	(3-0) 3	5	
	Technical Elective	(3-0) 3	7	
FE 206	Food Microbiology	(3-2) 4	5	
TURK 202	Turkish Language II (NC)	(2-0) Kredisiz	2	
HIST 202	Principles of Atatürk II (NC)	(2-0) Kredisiz	2	
FE 210	Introduction to Statistics for Engineers	(3-0) 3	5	
ECON 205	Principles of Economics	(3-0) 3	4	
	Total Number of Credits in the Semester :	16	30	

#### FIFTH SEMESTER

COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES
FE 301	Heat Transfer	(3-0) 3	5	
FE 303	Thermodynamics	(3-0) 3	5	
FE 305	Food Chemistry	(3-0) 3	5	
FE 321	Food Chemistry Laboratory	(0-2) 1	2	
	Technical Elective	(3-0) 3	7	
ENG 301	Technical Writing and Communication	(3-0) 3	3	
	Nontechnical Elective	(3-0) 3	3	
	Total Number of Credits in the Semester :	19	30	

#### SIXTH SEMESTER

Dersin Kodu	Dersin Adı	CREDIT	ECTS CREDIT	PREREQUISITES
FE 302	Mass Transfer	(3-0) 3	5	
FE 304	Food Engineering Unit Operations	(3-0) 3	5	
FE 322	Unit Operations Laboratory	(0-4) 2	4	
	Technical Elective	(3-0) 3	7	
FE 310	Food Technology	(3-0) 3	4	
	Technical Elective	(3-0) 3	7	
	Total Number of Credits in the Semester :	17	32	

#### SEVENTH SEMESTER

COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES
FE 401	Principles of Food Safety and Quality Assurance	(3-2) 4	4	

Prerequisite  
Explanation

\*Have taken the courses at least once and have a grade other than NA or W.

FE 403	Food Process Design	(2-4) 4	8	FE201*, FE202*, FE301*, FE 302*, FE304*, FE322*
	Nontechnical Elective	(3-0) 3	3	
	Technical Elective	(3-0) 3	7	
FE 423	Bioprocess Engineering and Reaction Kinetics in Foods	(3-0) 3	5	
FE414	Process Control	(3-0) 3	4	
FE 400	Summer Practice (NC)	(0-0) 0	1	
	Total Number of Credits in the Semester :	20	32	

**EIGHTH SEMESTER**

COURSE CODE	COURSE NAME	CREDIT	ECTS CREDIT	PREREQUISITES
MAN 211	Corporate Communication and Management Skills for Engineers	(3-0) Kredisiz	3	
FE 408	Product Engineering For Functional Foods	(3-2) 4	8	FE 403
	Technical Elective	(3-0) 3	7	
	Technical Elective	(3-0) 3	7	
	Technical Elective	(3-0) 3	7	
	Total Number of Credits in the Semester :	13	32	
	Total Credits :	140	246	