

# Program Curriculum

## Ph.D. in Food Technology

**For applicants holding M.Sc.**

**48credits**

(3-year plan with no longer than 6 years)

### Curriculum Structure

▪	Coursework		12 credits
	–	Required courses	
	·	2314897 Qualifying Examination	S/U
	·	2314894 Doctoral Dissertation Seminar *	S/U
	–	Electives	12 credits
	·	23146xx	≥ 6 credits
▪	Dissertation		36 credits

### Study plan

		Credits
<b>Semester 1</b>		<b>9</b>
	Electives	9
2314894	Doctoral Dissertation Seminar	S/U
<b>Semester 2</b>		<b>3</b>
	Electives	3
2314894	Doctoral Dissertation Seminar	S/U
2314897	Qualifying Examination	S/U
<b>Semester3</b>		<b>9</b>
2314826	Dissertation	9
2314894	Doctoral Dissertation Seminar	S/U
<b>Semester4</b>		<b>9</b>
2314826	Dissertation	9
2314894	Doctoral Dissertation Seminar	S/U
<b>Semester5</b>		<b>9</b>
2314826	Dissertation	9
2314894	Doctoral Dissertation Seminar	S/U
<b>Semester6</b>		<b>9</b>
2314826	Dissertation	9
2314894	Doctoral Dissertation Seminar	S/U
	<b>Total</b>	<b>48</b>

## For applicants holding B.Sc. (with Honors)

**72credits**

(4-year plan with no longer than 8 years)

### Curriculum Structure

▪ Coursework	24 credits	
– Required courses	6 credits	
• 2314627 Experimental Design for Technologists		3(3-0-9)
• 2314634 Food Research Techniques and Instrumentation		3(2-3-7)
• 2314897 Qualifying Examination	S/U	
• 2314894 Doctoral Dissertation Seminar *	S/U	
– Electives	12 credits	
• 23146xx	≥ 6 credits	
▪ Dissertation	48 credits	

### Study plan

	Credits
<b>Semester 1</b>	<b>12</b>
2314627 Experimental Design for Technologists*	3
2314634 Food Research Techniques and Instrumentation*	3
Electives	6
2314894 Doctoral Dissertation Seminar	S/U
<b>Semester2</b>	<b>9</b>
Electives	9
2314894 Doctoral Dissertation Seminar	S/U
<b>Semester3</b>	<b>3</b>
Electives	3
2314894 Doctoral Dissertation Seminar	S/U
2314897 Qualifying Examination	S/U
<b>Semester4</b>	<b>9</b>
2314828 Dissertation	9
2314894 Doctoral Dissertation Seminar	S/U
<b>Semester5</b>	<b>10</b>
2314828 Dissertation	10
2314894 Doctoral Dissertation Seminar	S/U
<b>Semester6</b>	<b>10</b>
2314828 Dissertation	10
2314894 Doctoral Dissertation Seminar	S/U
<b>Semester7</b>	<b>10</b>
2314828 Dissertation	10
2314894 Doctoral Dissertation Seminar	S/U
<b>Semester8</b>	<b>9</b>
2314828 Dissertation	9
2314894 Doctoral Dissertation Seminar	S/U
<b>Total</b>	<b>72</b>

\*The courses open only the first semester

## Note

- \* must enroll the seminar course every semester
- Must pass the qualifying examination (S) within 4 semesters
- Must propose the dissertation proposal within 6 semesters
- **At least 1 research article must be accepted to publish in an international journal before taking the defense for dissertation.**
- List of elective courses

2314515	Food Safety and Quality Management Systems	3 (3-0-9)
2314516	Sugar Technology	3 (3-0-9)
2314517	Candy and Confectionery Technology	3 (3-0-9)
2314518	Feed Technology	3 (3-0-9)
2314519	Fats and Oils	3 (3-0-9)
2314520	Food Carbohydrates	3 (3-0-9)
2314522	Cereal Technology	3 (2-3-7)
2314523	Fruit and Vegetable Technology	3 (2-3-7)
2314532	Selected Topics in Food Science	3 (3-0-9)
2314533	Food Packaging	3 (3-0-9)
2314538	Meat, Poultry and Fishery Products	3 (2-3-7)
2314540	Food Product Research and Development	3 (2-3-7)
2314545	Food Marketing	3 (3-0-9)
2314546	Food Plant and Process Design	3 (3-0-9)
2314547	Dairy Technology	3 (2-3-7)
2314548	Food Engineering	3 (3-0-9)
2314551	Biological Process Control	3 (3-0-9)
2314552	Starch Technology	3 (2-3-7)
2314555	Physical and Engineering Properties of Biomaterials	3 (3-0-9)
2314556	Food Additives	3 (3-0-9)
2314557	Food Toxicology	3 (3-0-9)
2314559	Beverage Technology	3 (3-0-9)
2314560	Advanced Food Processing I	3 (3-0-9)
2314580	Food Biotechnology	3 (3-0-9)
2314611	Food Proteins	3 (3-0-9)
2314613	Advanced Food Microbiology	3 (3-0-9)
2314614	Food Enzymes	3 (3-0-9)
2314618	Safety of Food Packaging	3 (3-0-9)
2314635	Advanced Food Processing II	3 (3-0-9)
2314636	Separation in Food Processes	3 (3-0-9)
2314638	Food Colloids	3 (3-0-9)
2314639	Pigments and Color Evaluation	3 (3-0-9)
2314640	Food Flavors	3 (3-0-9)