

FEED AND PET FOOD SCIENCE CURRICULUM GUIDE

KSU Department of Grain Science & Industry

(2023)

Production Option

<i>1st Semester</i>			<i>2nd Semester</i>		
Freshman					
GRSC 100	Foundations in GSI	1	ENGL 200	Expo Writing II	3
CHM 110	General Chem	3	GRSC 112	Feed & Pet Food Experience	1
ENGL 100	Expo Writing I	3	ASI 218	Fund of Nutrition	3
	Specialization Elective	3	BIOL 198	Principles of Biology	4
	Free Elective	3		Social Science	3
	Comm Elective	3			
TOTAL		16	TOTAL		14
Sophomore					
GRSC 312	Intro to Feed & Pet Food Processing	4		Arts & Humanities	3
STAT 350	Business & Econ Stat	3	GRSC 612	Advance Feed Tech	3
MATH 205	Gen Calc - Lin Algebra	3		Social Science Elective	3
GRSC 150	Principles of Milling	2		Management Elective	3
	Free Elective	3		Free Elective	3
TOTAL		15	TOTAL		15
Junior					
GRSC 620	Extrusion Processing	4	GRSC 310	Materials Handling	2
GRSC 210	CAD Flow Sheet	3	GRSC 651	Food and Feed Product Protection	2
PHYS 113	General Physics	4	GRSC 661	Qualities of Food and Feed Ingredients	3
	Management Elective	3	BIOCH 265	Intro to Organic and Biochemistry	5
	Specialization Elective	3	STAT 350	Business & Econ Stat	3
TOTAL		17	TOTAL		15
Senior					
GRSC 591	Internship in GSI	1	GRSC 540	Process Calculations for Food Systems	3
GRSC 615	Animal Food Safety	1	BIOL 455	Gen Microbiology	4
GRSC 645	Animal Food Processing	3	GRSC 655	Feed Mill Layout and Design	2
ACCT 231	Accounting for Business Operations	3		Specialization Elective	3
	Specialization Elective	3		Management Elective	3
	Free Elective	3			
TOTAL		14	TOTAL		15

Program Total Credits: 120

Science Option

<i>1st Semester</i>			<i>2nd Semester</i>		
Freshman					
GRSC 100	Foundations in GSI	1	GRSC 112	Feed & Pet Food Exp	1
CHM 210	Chem I	4	CHM 230	Chem II	4
ENGL 100	Expo Writing I	3	ENGL 200	Expo Writing II	3
	Social Science	3	MATH 205	Gen Calc & Lin Algebra	3
	Specialization Elective	3		Comm Elective	3
				Free Elective	3
TOTAL		14	TOTAL		17
Sophomore					
BIOL 198	Principles of Biology	4		Arts & Humanities	3
GRSC 312	Intro to Feed and Pet Food Processing	4	GRSC 612	Advanced Feed Tech	3
	Social Science	3	ASI 218	Fund of Nutrition	3
	Unrestricted Elective	3		Specialization Elective	3
				Free Elective	3
TOTAL		14	TOTAL		15
Junior					
BIOL 455	Gen Microbiology	4	BOCH 521	Intro Organic and Biochemistry	3
PHYS 113	Gen Physics I	4	GRSC 651	Food and Feed Product Protection	2
GRSC 620	Extrusion Processing	4	GRSC 661	Qualities of Food and Feed Ingredients	3
	Specialization Elective	3	PHYS 114	Gen Physics II	4
			STAT 325	Intro to Statistics	3
TOTAL		15	TOTAL		15
Senior					
GRSC 615	Animal Food Safety	1	GRSC 499	Undergrad Research	3
GRSC 591	Internship in GSI	1	GRSC 650	Nutritional Impacts of Processing	3
GRSC 645	Pet Food Processing	3	GRSC 655	Feed Plant Layout and Design	2
CHEM 350	Gen Organic Chem	3		Management Elective	3
CHEM 351	Gen Organic Chem Lab	2		Management Elective	3
	Management Elective	3			
	Free Elective	3			
TOTAL		16	TOTAL		14

Program Total Credits: 120