

MSM - Operations (OP) Option

Freshman - Fall			Freshman - Spring		
AGEC 120	Ag Econ & Ag Bus	3	CHM 230	Chemistry II	4
<i>or ECON 120</i>	<i>Micro Econ</i>		COMM 105	Public Speaking	2
CHM 210	Chemistry I	4	GRSC 150	Prin of Milling	2
ENGL 100	Expo Writing I	3	GRSC 151	Prin of Milling Lab	1
FGRSC 100	Foundations in GSI	2	MATH 205	Gen. Calc & Lin. Algeb	3
	Social Sci Elective	3		Unrestricted Elective	3
		15			15
Sophomore - Fall			Sophomore - Spring		
BIOL 198	Prin. of Biology	4	BIOCH 265	Intro to Biochemistry	5
ENGL 200	Expo Writing II	3	<i>or CHM 350/351</i>	<i>Gen Organic Chem & Lab</i>	
FGRSC 210	CAD Flow Sheets	3	SGRSC 405	Grain Analysis Tech	2
PHYS 113	Gen. Physics I	4	SGRSC 310	Materials Handling	2
			SGRSC 500	Milling Science I	2
			SGRSC 501	Milling Science I Lab	2
			STAT 325	Intro to Statistics	3
		14			16
Junior - Fall			Junior - Spring		
BIOL 455	Gen. Microbiology	4	SGRSC 540	Process Calculations	3
FGRSC 502	Milling Science II	2	SGRSC 560	Electricity and Ind Power Dist	3
FGRSC 503	Milling Science II Lab	2		Management Elective	3
FGRSC 556	Pneumatic Conv of Dry Solids	2		Specialization Elective	3
^F GRSC 591	Internship in Grain Sci	1		Specialization Elective	3
^F GRSC 602	Cereal Science	3			
		14			15
Senior - Fall			Senior - Spring		
FGRSC 530	Mngt Appl in Grain Proc Ind	3	SGRSC 555	Process Flow and Mill Design	3
^F GRSC 635	Baking Science I	2	SGRSC 580	Milling of Specially Grains	2
^F GRSC 636	Baking Science I Lab	2	^S GRSC 625	Flour & Dough Testing	2
	Communication Elective	3	^S GRSC 651	Food/Feed Protection	2
	Management Elective	3		Management Elective	3
	Management Elective	3		Unrestricted Elective	3
		16			15

F Fall only

S Spring only

Minimum of 120 credits required for graduation.

BOLD RED Courses in BOLD must be taken in the designated semester.

K-State 8 General Education requirements:

Students must meet the requirements of the K-State 8 General Education Program.

BSM core curriculum fulfills some of the K-state-8 requirements. Advisors and students need to make the *right course choices* for the ELECTIVES to satisfy the remaining K-State 8 requirements. Please check the link below for complete list of courses tagged for the K-State 8 areas: <http://www.k-state.edu/kstate8/lists/>

MSM - Chemistry (CH) Option

Freshman - Fall			Freshman - Spring		
AGEC 120	Ag Econ & Ag Bus	3	CHM 230	Chemistry II	4
<i>or ECON 120</i>	<i>Micro Econ</i>		COMM 105	Public Speaking	2
CHM 210	Chemistry I	4	GRSC 150	Prin of Milling	2
ENGL 100	Expo Writing I	3	GRSC 151	Prin of Milling Lab	1
FGRSC 100	Foundations in GSI	2	MATH 220	Calculus I	4
	Social Sci Elective	3		Unrestricted Elective	3
		15			16
Sophomore - Fall			Sophomore - Spring		
BIOL 198	Prin. of Biology	4	CHM 532	Organic Chem I Lab	2
CHM 531	Organic Chem I	3	SGRSC 405	Grain Analysis Tech	2
ENGL 200	Expo Writing II	3	SGRSC 310	Materials Handling	2
FGRSC 210	CAD Flow Sheets	3	SGRSC 500	Milling Science I	2
STAT 325	Intro to Statistics	3	SGRSC 501	Milling Science I Lab	2
			PHYS 213	Engineering Physics I	5
		16			15
Junior - Fall			Junior - Spring		
BIOL 455	Gen. Microbiology	4	BIOCH 521	Gen. Biochemistry	3
CHM 550	Organic Chem II	3	MATH 221	Calculus II	4
FGRSC 502	Milling Science II	2	PHYS 214	Engineering Physics II	5
FGRSC 503	Milling Science II Lab	2		Management Elective	3
^F GRSC 591	Internship in Grain Sci	1			
^F GRSC 602	Cereal Science	3			
		15			15
Senior - Fall			Senior - Spring		
FGRSC 530	Mngt Appl in Grain Proc Ind	3	^S GRSC 625	Flour & Dough Testing	2
^F GRSC 635	Baking Science I	2	^S GRSC 651	Food/Feed Protection	2
^F GRSC 636	Baking Science I Lab	2	^S CHM 500	Gen. Phys Chem	3
	Communication Elective	3	Choose one: GRSC ^S 555, ^F 556, ^S 580		2-3
	Management Elective	3		Specialization Elective	3-2
	Management Elective	3		Unrestricted Elective	3
		13			15

F Fall only

S Spring only

Minimum of 120 credits required for graduation.

BOLD RED Courses in BOLD must be taken in the designated semester.

Chemistry Option students are encouraged to pursue a DOUBLE MAJOR in Bakery Science and Management – Cereal Chemistry option.

With advanced planning and careful selection of electives, MSM-CH and BSM-CC requirements can be satisfied by completing as low as of 127 hours in combination.

Communication Electives:

AGCOM 400, 610
COMM 311, 322, 326, 465, 480, 535
ENGL 302, 417, 510, 516
Modern languages

Specialization Electives (PM Option):

ACCTG 231 or above
AGEC 115 or above
ENTRP 340
FDSCI 307 or above
FINAN 450 or above
GRSC 201 or above
LEAD 212 or above
MANGT 300 or above
MKTG 400 or above
PHYS 114

Management Electives:

ACCTG 231 or above
AGEC 115 or above
ECON 110 or above
ENTRP 340
FINAN 450 or above
MANGT 300 or above
MKTG 400 or above

Specialization Electives (CH Option):

ACCTG 231 or above
AGEC 115 or above
BIOCH 522
CHM 371
FDSCI 305 or above
FINAN 450 or above
GRSC 201 or above
LEAD 212 or above
MANGT 300 or above
MKTG 400 or above

To complete a **Business Minor** (College of Business), the following “management” and “specialization” electives are recommended:

ECON 110, ACCTG 231, ACCTG 241, MANGT 420, MKTG 400 and FINAN 450.

To complete an **Agribusiness Minor** (College of Agriculture), the following “management” and “specialization” electives are recommended:

ECON 110, ACCTG 231, AGECE 500, AGECE 505, AGECE 318, AGECE 513, plus one more AGECE elective.

To complete an **Agricultural Economics Minor** (College of Agriculture), the following “management” and “specialization” electives are recommended:

ECON 110, AGECE 500, AGECE 505, plus three more AGECE electives.