

Academic Program Curriculum University of Minnesota Crookston Bachelor of Science

July 24, 2018

AGRICULTURAL EDUCATION

REQUIREMENTS: Agricultural Science Liberal Education 40 Technology 3 Major/electives 81 TOTAL 124	REQUIREMENTS: Natural and Managed Environmental Science Liberal Education 40 Technology 3 Major/electives 81 TOTAL 124	REQUIREMENTS: Agricultural Systems Engineering Technology Liberal Education 40 Technology 3 Major/electives 81 TOTAL 124
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LIBERAL EDUCATION DISTRIBUTION REQUIREMENTS (minimum of 40 credits)

Written and Oral Communication (*minimum of 9 credits*) Required course in this area:

	COMP	1011	Composition I	3	FS
	COMP	1013	Composition II	3	FS
	SPCH	1101	Public Speaking	3	FS

Biological and Physical Sciences (*min. of 3 credits from biological sciences with lab and min. of 3 credits from physical sciences with lab*)

	BIOL	1009	General Biology	4	FS
	PHYS	1012	Introductory Physics (AAET emphasis)	4	FS
	CHEM	1001	Introductory Chemistry (AS & NMEE emphasis)	4	FS

Mathematical Thinking (*min. of 3 credits*)

	MATH	1031	College Algebra	3	FS
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History and the Behavioral and Social Sciences (*min. of 6 credits; ED requires the following*)

	ECON	2102	Microeconomics	3	FS
	ED	2100	Child Development and Learning	3	FS

The Humanities—the Arts, Literature, and Philosophy (*min. of 6 credits*)

Human Diversity (*min. of 3 credits; may also count in one other goal area*)

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Global Perspective (*min. of 3 credit; may also count in one other goal area*)

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Ethical and Civic Responsibility (*min. of 3 credits; may also count in one other goal area*)

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People and the Environment (*min. of 3 credits; may also count in one other goal area*)

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Liberal Education Electives

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Additional Required Courses (*min. of 3 credits*)

			Technology course	3	FS
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PROGRAM REQUIREMENTS

EDUCATION CORE (22)

	ED	2200	Foundations of Education	3	F
	ED	2400	Introduction to Middle and High School Education and Experiential Learning	3	S
	ED	3000	Cultural Immersion	1	F
	ED	3009	Human Relations in Diversity	1	S
	ED	3110	Educational Psychology	3	S
	ED	3210	Reading in the Content Area	2	F
	ED	3500	Introduction to Children with Special Needs	2	S
	ED	3600	Classroom Management in Middle School and High School Settings	3	F
	ED	4400	Teaching 5-12 Students in Inclusive Environments	2	F
	ED	4800	Senior Professional Seminar	1	S
	PUBH	3005	Fundamentals of Alcohol and Drug Abuse for Teacher Education (UMTC)	1	FS

AGRICULTURE/NATURAL RESOURCES CORE (24)

	SOIL	1293	Soil Science	3	F
	ASM	1034	Facility, Maintenance, and Safety	4	FS
	AGEC	1005	World Agricultural Food Systems	3	S
	AGEC	2310	Agribusiness Financial Records	3	FSSS
	ANSC	1004	Introduction to Animal Science	4	FS
	NATR	3374	Ecology	4	F
	GNAG	3XXX	International Agricultural Education Experience (GnAg 3203 or 3204)	3	S,M,SS

ARICULTURAL EDUCATION (24)

	AGED	1001	Careers in Agricultural/Extension Education, Farm Business Mgmt.	1	F
	AGED	2001	Early Experience in Agricultural Education (May be repeated to 3 credits)	1	FS
	AGED	3003	SAE & FFA	3	S
	AGED	3004	Methods of Teaching Agricultural Education	4	F
	AGED	4003	Agricultural Education Program Organization	3	F
	AGED	4001	Methods of Teaching Farm Business Management	1	S
	AGED	4600	Teaching Internship – Work-Based Learning	1	S
	AGED	4700	Teaching Internship – Farm Business Management	1	S
	AGED	4800	Teaching Internship – Middle School	1	S
	AGED	4900	Teaching Internship– High School	8	S

AGRICULTURAL SCIENCE EMPHASIS (11)

	HORT	1010	Introduction to Horticulture	3	FS
	AGRO	1183	Field Crops: Production Principles	3	FS
	EQSC or ANSC	XXXX	Animal Production (select from the following: EqSc 2102; AnSc 1205, 1206, 3303, 3204)	4	FS
	AG/NATR		Electives	1	

NATURAL AND MANAGED ENVIRONMENTAL EDUCATION EMPHASIS (11)

	HORT	1010	Introduction to Horticulture	3	FS
	NATR	1233	Introduction to Natural Resources	3	F
	NATR	1244	Elements of Forestry	4	S
	AG/NATR/ENSC		Electives	1	

AGRICULTURAL SYSTEMS ENGINEERING TECHNOLOGY EMPHASIS (11)

	ASM	2053	Electricity, Controls, and Sensors in Agriculture	3	S
	ASM	2200	Introduction to Renewable Energy Systems	3	S
	ASM	3360	Applications in Precision Agriculture	3	F
	ASM	XXXX	ASM Electives: Recommend either ASM 2043 or ASM 3002	2	FS