

CURRICULUM OUTLINE

Professional Science Master in Applied Science and Technology
 Kansas State University Olathe Campus

Courses required for each student in the major:

	Course Name & Number	Credits
Core	AAI 801. Interdisciplinary Process (<i>Professional Skills - required</i>)	3
	AAI 858. Capstone Experience I	1
	AAI 859. Capstone Experience II	2
STEM	<i>Statistics Electives – 3 credits selected from the following courses (or another graduate statistics course as approved by the student’s supervisory committee):</i>	
	STAT 701. Fundamental Methods of Biostatistics	3
	STAT 703. Introduction to Statistical Methods for the Sciences	3
	<i>STEM Electives – 12 credits selected from the following courses (or graduate STEM courses within the disciplines indicated below, as approved by the student’s supervisory committee):</i>	
	AAI 795. Topics in Applied and Interdisciplinary Studies	1-3
	AAI 870. Seminar in Applied and Interdisciplinary Studies	1-6
	AAI 880. Problems in Applied and Interdisciplinary Studies	1-6
	AAI 895. Advanced Topics in Applied and Interdisciplinary Studies	1-6
	AAI 899. Research in Applied and Interdisciplinary Studies	1-6
	ASI 671. Meat Selection and Utilization	2
	ASI 675. Monogastic Nutrition	1
	ASI 678. Equine Nutrition	1
	ASI 776. Meat Industry Technology	3
	BAE 815. Graduate Seminar in Agricultural Engineering	1
	BAE 820. Topics in Agricultural Engineering	1-18
	DMP 710. Introduction to One Health	2
	DMP 754. Introduction to Epidemiology	3
	DMP 802. Environmental Health	3
	DMP 844. Global Health Issues	3
	DMP 870. Pathobiology Seminar (MS)	1
	DMP 880. Problems in Pathobiology (MS)	1-6
	DMP 895. Topics in Pathobiology (MS)	0-18
	EDACE 886. Seminars in Adult Education	1-18
	FDSCI 600. Food Microbiology	2
	FDSCI 601. Food Microbiology Lab	2
	FDSCI 630. Food Science Problems	0-18
	FDSCI 690. Principles of HACCP	2

	FDSCI 695. Quality Assurance of Food Products	3
	FDSCI 961. Graduate Problem in Food Science	1-18
	HN 841. Consumer Research – Fundamentals	1
	HN 843. Consumer Research – Qualitative	1
	HN 848. Consumer Research – Quantitative	1
	HORT 725. Postharvest Technology and Physiology of Horticultural Crops	3
	HORT 780. Health-Promoting Phytochemicals/Physiology of Fruits/Vegetables	2
	HORT 790. Sustainable Agriculture	2
	HORT 791. Urban Agriculture	2
	HORT 793. Farm to Fork Produce Safety	2
	HORT 794. Urban Food Systems	2
	HORT 795. Urban Agriculture Study Tour	1
Professional Skills	<i>Professional Skills Electives – 9 credits selected from the following courses (or other graduate professional skills courses as approved by the student’s supervisory committee):</i>	
	AAI 795. Topics in Applied and Interdisciplinary Studies	1-3
	AAI 840. Regulatory Aspects of Drug/Vaccine Development in Animal Health	2
	AAI 870. Seminar in Applied and Interdisciplinary Studies	1-6
	AAI 880. Problems in Applied and Interdisciplinary Studies	1-6
	AAI 895. Advanced Topics in Applied and Interdisciplinary Studies	1-6
	AAI 899. Research in Applied and Interdisciplinary Studies	1-6
	COT 703. Project Management for Professionals	3
	COT 704. Managerial Finances, Metrics, and Analytics	3
	COT 706. Informatics and Technology Management	3
	DMP 815. Multidisciplinary Thought and Presentation	3
	DMP 816. Trade and Agricultural Health	2
	DMP 888. Globalization, Cooperation, & the Food Trade	1
	EDACE 832. Interpersonal and Intrapersonal Dynamics	3
	EDACE 834. Leading Adults in a Globalized and Diverse World	3
	EDACE 835. Developing Teams and Leaders	3
	EDACE 836. Group Dynamics	3
	EDACE 886. Seminars in Adult Education	1-18
Research	N/A	
Practica	N/A	
	Total credits required	30

FISCAL SUMMARY
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Part I. Anticipated Enrollment	Implementation Year FY 17		Year 2 FY 18		Year 3 FY 19	
	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time
A. Full-time, Part-time Headcount:	5	10	10	20	15	30
B. Total SCH taken by all students in program	255		510		765	
Part II. Program Cost Projection						
A. In <u>implementation</u> year one, list all identifiable General Use costs to the academic unit(s) and how they will be funded. In subsequent years, please include only the additional amount budgeted.						
	Implementation Year	Year 2	Year 3			
<u>Base Budget</u>						
Salaries	\$7,000	\$7,000	\$7,000			
OOE	\$2,500	\$2,500	\$2,500			
Total	\$9,500	\$9,500	\$9,500			

This budget assumes the following for Part I:

Full-time students will be taking 9 credits in the fall, 9 credits in the spring, and 3 credits in the summer semesters.

Part-time students will be taking 6 credits in the fall, 6 credits in the spring, and 3 credits in the summer semesters.

Additional revenue will be generated by part-time students taking a course or two, but that is not factored into this budget.

This budget assumes the following for Part II:

The majority of instruction will be provided by existing K-State faculty who are already fully supported by the University.

One part-time adjunct will need to be employed to teach the face-to-face statistical methods course. (Cost = \$7,000/year).

Adjunct salaries and other course related expenses will be funded from tuition and fees related to courses taught by the part-time adjunct instructor.

The "Other Expenses" include materials and supplies for courses, marketing materials, and travel and will be funded from tuition and fees.

Marketing will be managed by the K-State Olathe marketing team and K-State Division of Communications & Marketing.