

PROFESSIONAL SCIENCE MASTER

IN APPLIED BIOSCIENCES



KANSAS STATE
UNIVERSITY

Olathe

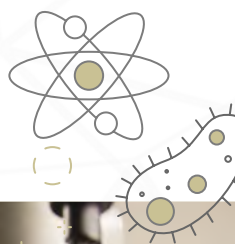
WHY A PSM DEGREE?

A professional science master degree, or PSM, is a unique, industry-focused graduate program that fuses advanced training in animal health and food safety and security with leadership and managerial skills.

The program is ideal for those seeking to build the STEM and professional expertise needed for career advancement into a managerial role.

Program advantages

- Hands-on application through a capstone project that addresses an industry challenge or helps improve operations.
- Tailored coursework offered on a flexible schedule.
- Advanced scientific knowledge merged with leadership and “soft skills” for real-world application.
- Multidisciplinary curriculum means a more comprehensive ability to solve complex problems.



"One of the biggest contributions of the PSM degree to my career was learning and appreciating the importance of a multidisciplinary and interdisciplinary approach to solving problems. The courses challenged me to think about how to bring cross-functional groups together, integrate these groups and leverage differences to **find creative solutions when facing complex problems.**"

— Emily, professional science master's degree graduate

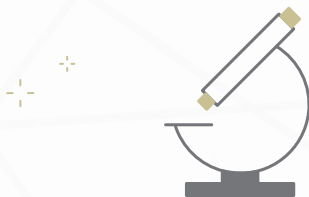
CURRICULUM OVERVIEW

This is a 30 credit hour program. All students take STEM courses in either the animal health track or food safety and security track, professional skills courses and a statistics course.

Tailor your curriculum to fit your interests and career goals. Along the way, you'll work with an advisor and supervisory committee to ensure you're on the path to success. Coursework can be started any time during the year.

Content areas in the curriculum include:

- Applied and interdisciplinary studies
- Animal sciences and industry
- Diagnostic medicine/pathobiology
- Food, nutrition, dietetics and health
- Food science
- Group dynamics and team development
- Horticulture
- Industrial and manufacturing systems engineering
- Interpersonal communications
- Leadership and team development
- Regulatory affairs
- Project management
- Statistics



Specific courses and descriptions are at olathe.k-state.edu/psm



DEGREE TRACKS

The Professional Science Master in Applied Biosciences offers two academic tracks. You'll be asked to declare a track at the time of admission. Each track encompasses 12 credit hours of the total 30 credit degree.

Animal Health

Courses in the animal health track provide you with knowledge of diseases that affect animals, as well as the interconnections among animals, humans and the environment. When paired with the professional skills courses, you'll be prepared to lead and manage in commercial, governmental or nonprofit organizations related to the animal health industry.

Food Safety and Security

Courses in the food safety and security track provide you with knowledge and skills in the areas of food science, food safety, horticulture, nutrition and consumer science. When paired with the professional skills courses, you'll be prepared to lead and manage in commercial, governmental or nonprofit organizations related to the food industry.

BUILD YOUR DEGREE



STEM
15 credits



Professional Skills
12 credits



Capstone
3 credits



CAREER OUTCOMES

Step into a new leadership role with the confidence and skills you need.

A professional science master's degree opens the door for managerial and supervisory roles in laboratories, research units, business and also governmental and nonprofit organizations. This could include positions as a lab manager or director of quality assurance, and mid- to senior-level scientific or technical positions, such as project manager.

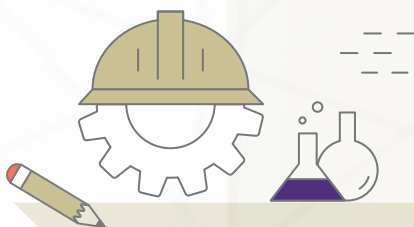
Professionals who may benefit from a professional science master's degree are those working as laboratory scientists and analysts, research and development scientists, federal agency technical specialists, or in production and quality support.



The National Professional Science Master's Association (NPSMA) is the membership association for the PSM initiative.



www.npsma.org



GRADUATE CERTIFICATES

Further your knowledge and resume with stackable credentials in the form of two graduate certificates. Both certificates plus a capstone experience can be completed while earning your degree.

Professional Interdisciplinary Sciences certificate

Develop and enhance your interdisciplinary skills in order to more effectively tackle broad, multifaceted challenges that arise in animal health and food safety and security. This program is 12 credit hours.

Professional Skills for STEM Practitioners certificate

Gain the management, communication and critical thinking skills necessary for leadership roles in STEM industries and fields. This program is 15 credit hours.



CONNECT



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