

Bachelor of Science in Pharmaceutical Sciences (BSPS)



Innovative Academic Partnership

The MCW School of Pharmacy, in collaboration with other academic institutions, is launching a Bachelor of Science in Pharmaceutical Sciences (BSPS) program in the fall of 2027.

With a Bachelor of Science in Pharmaceutical Sciences (BSPS), students will have the skills to launch a career across research, industry, and healthcare. Graduates are well positioned to pursue diverse career paths or continue their education.

Program Structure & Collaborative Model

- **Years 1-3:** Undergraduate coursework at the student's home institution
- **Year 4:** Immersive final year at the MCW School of Pharmacy
- Combines foundational education with MCW's expert faculty in pharmaceutical sciences
- **Credit Hours:** 26-27
- **Delivery Mode:** Hybrid approach, virtual asynchronous courses with optional live, on-campus interactive reviews

Why This Program?

- Enhances undergraduate retention in a STEM field
- Students at participating institutions can apply to our joint program at any point during their first three years
- Fosters innovation, and expands student access/marketability
- Offers flexibility in delivery

Market Demand

- Strong curriculum foundation
- Projected growth in pharmaceutical and biomedical careers
- No comparable partnerships for undergraduate programs in the Milwaukee region
- Student surveys show strong interest

Career Options for BSPS Graduates

Pharmaceutical Research & Development

Discover and test new drugs that change lives.

Clinical Research & Trials

Coordinate and advance innovations from the lab to the clinic.

Regulatory Affairs & Drug Safety

Ensure medicines meet safety and quality standards.

Pharmaceutical Sales & Marketing

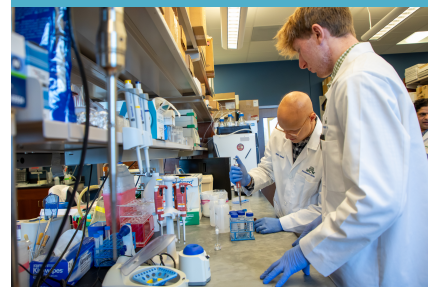
Bridge science and business while connecting treatments to providers.

Quality Assurance & Manufacturing

Safeguard the production of safe and effective medications.

Graduate & Professional Pathways

Advance into PharmD, MD or PhD programs.



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MCW School of Pharmacy

Medical College of Wisconsin School of Pharmacy

LEARN MORE ONLINE

www.mcw.edu/pharmacy

BSPS Curriculum Overview

Fall Semester (14 Credits)

Course	Credits	Description
Pharmaceutical Drug Delivery	3	Drug properties, compounding, dosing
Medicinal Chemistry & Drug Discovery	3	Molecular drug action, development
Pharmacology & Toxicology	4	Drug interactions, toxicity, applications
Biotechnology	2	Biopharmaceuticals, gene therapy, vaccines
US Healthcare System	2	Policy, delivery, disparities, reform

Spring Semester (12-13 Credits)

Course	Credits	Description
Analytical Techniques	3	Chromatography, spectroscopy
Pharmacokinetics & Pharmacogenomics	4	Drug metabolism, genetics, clinical relevance
Clinical Research & Biostatistics	4	Study design, data analysis, trials
Pharmacy Research & Seminar	2	Expert-led topics, student presentations

Prerequisites

Course	Required	Recommended
Biology	2 Courses	General Biology, Biochemistry
Chemistry	2 Courses	General & Organic Chemistry
Math	College Algebra	Calculus, Algebra

Interested in Becoming a BSPP Partner Institution?

Contact Nashaat Gerges, PhD, BPharm, Chair of the Department of Biopharmaceutical Sciences and Professor via email at ngerges@mcw.edu.

LEARN MORE ONLINE

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