

**Columbus State Community College
Pharmacy Technician Certificate and Associate of Science (AS) Degree
to The Ohio State University
Bachelor of Science in Pharmaceutical Sciences (BSPS) Degree,
Pathway: Healthcare Professions/Pre-Pharmacy
Sample Graduation Plan**



Freshman Year (CSCC)

Autumn Semester		Spring Semester	
MULT 1500 Concepts for the Pharmacy Tech.	(4)	MULT 1550 Pharmacology for the Pharm. Tech.	(2)
MULT 1525 Calculations for the Pharmacy Tech	(2)	MULT 1900 Pharm. Tech. Lab and Practicum I	(2)
CHEM 1171 General Chemistry I**	(5)	BIO 1113 Biological Sciences I**	(4)
MATH 1151 Calculus I**	(5)	ENGL 1100 Composition I	(3)
COLS 1100 First Year Experience	(1)	CHEM 1172 General Chemistry II**	(5)
	(17)		(16)

Summer (CSCC)

MULT 1805 Pharmacy Technician Seminar	(1)
MULT 1905 Community Pharmacy Prac. Pract.	(1)
MULT 1130 Responding to Emergencies***	(2)
MULT 1110 Medical Terminology***	(2)
	(6)

Sophomore Year (CSCC)

Autumn Semester		Spring Semester	
STAT 1450 Principles of Statistics	(4)	CHEM 2252 Organic Chemistry II**	(5)
CHEM 2251 Organic Chemistry I**	(5)	Historical Study*	(3)
CHEM 2254 Organic Chemistry Lab I**	(3)	BIO 2215 General Microbiology**	(4)
Social & Behavioral Science*	(3)	Social & Behavioral Science*	(3)
Intermediate Composition*	(3)	Literature/Visual and Performing Arts*	(3)
	(18)		(18)

* Course options to fulfill this requirement are listed on the last 2 pages of this document. **Major courses required -see notes on page 2. ***Pharm Tech Cert. courses- see notes on page 2

Junior Year (OSU)

Autumn Semester		Spring Semester	
PHR 3200 Biochemistry for Pharmaceutical Science	(5)	PHR 4000 Molecules to Medicine: An Integrated Approach to the Pharm. Sciences I	(5)
PHR 1100 Pharmaceutical Sciences Survey	(1)	PHR 4600 Pharmaceutical Sciences	(2)
PHARM Major Choice Science Course	(4)	PHARM Major Choice Science Course**	(4)
PHR 3100 Physiology for Pharm. Sci.	(4)	PHARM 2101 Career Development in Pharm. Sci. (0.5)	(0.5)
PHR 2100 Career Development in Pharm. Sci.	(0.5)	Citizenship for a Diverse & Just World Theme	(4)
Bookend Courses (Transfer)	(0-2)		
	(14.5-16.5)		(15.5)

Senior Year (OSU)

Autumn Semester		Spring Semester	
Pharmacy Major Elective	(3)	PHR 3110 Drugs, Data, and Discourse	(3)
Pharmacy Major Elective	(3)	PHR 2500 Drug Dev., Disc., & Delivery	(3)
Pharmacy Major Elective	(3)	Pharmacy Major Elective	(3)
PHR 4010 Molecules to Medicine: An Integrated Approach to the Pharm. Sciences II	(5)	PHR 3500 Pharmacoethics: Dilemmas & Decision Making	(2)
PHARM Major Choice Science Course	(3-4)	Elective	(3)
	(17)		(14)

- **CSCC General Education Requirements:** Students should choose the General Education courses for the AS degree in

consultation with their academic and faculty advisors.

- **CSCC Degree Plan:** This Sample Graduation Plan was created using the general plan of study for the Columbus State Associate of Science degree. Students who are following a specific transfer pathway at Columbus State may utilize this plan for the purposes of transfer and degree planning but should note that additional course work may be necessary to complete the Columbus State Associate of Science Major beyond what is required for the Bachelor of Science in Pharmaceutical Science (BSPS) degree at OSU. Additional course work completed as part of Columbus State's transfer pathway may be applied as electives or where appropriate, course work toward the major/minor at OSU.
- **AS Degree and Ohio Transfer 36:** Students who complete the AS degree at Columbus State earn the Ohio Transfer 36 (formerly the Ohio Transfer Module). OSU requires students to complete the Ohio Transfer 36 and/or the AS degree to fulfill the OSU General Education Foundations, Open Choice Theme, and Bookend (Launch & Reflection Seminars) requirements for the OSU degree. **If a student does not complete the AS degree and/or the Ohio Transfer 36, they will need to take additional general education course work at OSU to earn the degree.**
- **OSU General Education:** How a student completes these requirements will vary, depending on how they choose to complete the General Education requirements at Columbus State. Any General Education requirements not completed at Columbus State will need to be completed at Ohio State. Students should consult with a BSPS advisor at (COP-BSPSInfo@osu.edu) to discuss appropriate and optimal course selections for General Education. The program outlined above is a sample scheduling plan for BSPS students. We encourage students to plan their academic program early, review the plan with their academic advisor, and update the plan as conditions change.
- *****Pharmacy Tech Certificate:** In this degree plan, students will complete the Pharmacy Technician Certificate in addition to their Associate of Science degree. Students will need to declare the certificate and the Associate of Science degree at Student Central (Madison Hall Upper Level, 614-287-5353) for students to receive funding through federal financial aid programs (applied for with FAFSA). As part of the certificate, students must complete 4 credits of technical electives- MULT 1110 and 1130 is recommended. The Pharmacy Technician certificate courses do not count as electives toward the Associate of Science degree. They may count as electives toward the BSPS degree at OSU. Students should consult their BSPS advisor regarding these courses and their eligibility for application.

The Pharmacy Technician Certificate can be completed in two to three semesters. Generally, course work is available online in an asynchronous format, except for MULT 1900 and MULT 1905, the two practicum courses. Students will work with their faculty advisor in the certificate to arrange their practicum experiences and hours around their other course work.

Students do not need to earn the Pharmacy Technician certificate to earn the Associate of Science degree and/or to enter the BSPS degree at OSU. This plan was created to assist students who desire both the certificate and the degree assistance in planning their course work while at Columbus State. Earning your certificate provides you a valuable set of skills to work in the field while pursuing your associate's and bachelor's degree, but it will not guarantee you acceptance into a Doctor of Pharmacy (Pharm.D.) or any other graduate/professional program that prepares you to become a licensed pharmacist.

- ****BSPS: Healthcare Professions Pathway:** Students complete a set of required Core Science courses at Columbus State as part of the AS degree: CHEM 1171, 1172, 2251, 2252, 2254, BIO 1113, and MATH (see notes below re: Math). These courses qualify students for upper division BSPS required major core and elective course work. The Healthcare Professions Pathway Students must have 2.5 cumulative GPA or higher to be admitted to the BSPS degree. Students will choose their remaining BSPS degree electives in cooperation with their OSU BSPS advisor. Students who have questions regarding the BSPS degree and/or the specialization are encouraged to contact the BSPS advisors at: COP-BSPSInfo@osu.edu

MATH REQUIREMENT: Associate of Science (AS) degree requires completion of MATH 1151 or STAT 1450. The BSPS degree requires completion of a precalculus course/sequence (MATH 1120/1121, MATH 1148/1149, or MATH 1150) and STAT 1450. Students are strongly encouraged to complete MATH 1151 if they are planning to enroll in graduate degree programs following the bachelor's degree as some may require calculus. The Pharm.D. admission criteria at OSU do not include MATH 1151. If students complete MATH 1151 at CSCC or OSU, it will count as a "PHARM Major Choice Science Course" (if a precalculus course/sequence is completed) or as the GE Foundation Math requirement (if a student places directly into calculus) for the degree.

The BSPS degree at OSU is delivered in a classroom-based format on the Columbus campus primarily during the day. Students who have completed their AS degree with the above-mentioned preparation will have two full-time years remaining at OSU. Students who have questions about course work at OSU including the delivery method, course timing, or schedule planning should contact a BSPS advisor.

Suggested Courses to Complete for OSU's General Education Requirement and Requirements for the Associate of Science Degree at Columbus State

Intermediate Composition

For the AS degree and the OT-36, students must complete one course from ENGL 2367, 2467, 2567, 2667, or 2767. ENGL 2767 is recommended.

Historical Study

For the AS degree and the OT-36, students must complete one Historical Study course. Any course from the list on the AS plan of study can be chosen for this requirement.

Social Science

For the AS degree and the OT-36, two social science courses are required from two different departments listed on the AS plan of study. For students seeking admission to some graduate/professional programs following the degree, PSY 1100 and/or SOC 1101 are recommended.

Literature/Cultures & Ideas/Visual & Performing Arts

For the AS degree and the OT-36, students must complete one course from Literature/Cultures & Ideas/Visual and Performing Arts. Any course listed in these categories from the AS plan of study may be chosen.