



Freshman Year (CSCC)

Autumn Semester		Spring Semester	
ENGL 1100 Composition I	(3)	CHEM 1172 General Chemistry II**	(5)
MATH 1151 Calculus I**	(5)	BIO 1113 Biological Sciences I**	(4)
CHEM 1171 General Chemistry I **	(5)	Intermediate Composition*	(3)
Social and Behavioral Science*	(3)	BIO 2215 Intro to Microbiology**	(4)
COLS 1100 First Year Experience	(1)		
	(17)		(16)

Sophomore Year (CSCC)

Autumn Semester		Spring Semester	
Social and Behavioral Science*	(3)	CHEM 2252 Organic Chemistry II**	(5)
CHEM 2251 Organic Chemistry I**	(5)	Literature/Cultures & Ideas/Vis/Perf. Arts*	(3)
CHEM 2254 Organic Chemistry Lab I**	(3)	Natural Science Elective (BSPS Major)**	(4/5)
Historical Study*	(3)	STAT 1450 The Practice of Statistics	(4)
	(14)		(16/17)

*Course options to fulfill this requirement are listed on the last 2 pages of this document.

Junior Year (OSU)

Autumn Semester		Spring Semester	
PHR 2500 Drug Development, Discovery, & Delivery	(3)	PHR 4000 Molecules to Medicine: An Integrated Approach to the Pharm. Sciences I	(5)
Pharmacy Major Choice Science Elective	(4)	PHR 4600 Pharmaceutical Sciences Laboratory	(2)
PHR 1100 Pharmaceutical Sciences Survey	(1)	PHR 2530 Intro to Pharm. Sci. Research	(2)
PHR 3100 Physiology for Pharm. Sci.	(4)	PHR 2101 Career Development in Pharm. Sci.	(0.5)
PHR 2100 Career Development in Pharm. Sci.	(0.5)	Pharmacy Major Choice Science Elective	(3)
PHR 3200 Biochemistry for Pharm. Science	(5)	GENED 2601 Connections Seminar	(1)
		Citizenship for Diverse & Just World Theme	(3)
	(17.5)		(16.5)

Senior Year (OSU)

Autumn Semester		Spring Semester	
Pharmacy Major Elective	(4)	PHR 3110 Drugs, Data, and Discourse	(3)
Pharmacy Major Elective	(3)	Pharmacy Major Choice Science Elective	(3)
Pharmacy Major Elective	(3)	Citizenship for Diverse & Just World Theme	(3)
PHR 4010 Molecules to Medicine: An Integrated Approach to the Pharm. Sciences II	(5)	PHR 3500 Pharmacoethics: Dilemmas & Decision Making	(2)
		PHR 4610 Experimental Tech. in Drug Discovery	(3)
	(15)		(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 major 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 Sciences degree at OSU. Additional course work completed as part of a major at Columbus State may be applied as electives or where appropriate, course work toward the major/minor at OSU.

- **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.
- **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 and Open Choice theme 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.**
- ****BSPS: Drug Discovery & Development Pathway:** Students must complete a set of core math and science courses at Columbus State and Ohio State: CHEM 1171, 1172, 2251, 2252, 2254, BIO 1113, and PHARM 3100 (at OSU) to qualify for upper division BSPS required major and elective course work.

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.

Students will need two additional Natural Science elective courses at CSCC for their BSPS major. Students may choose from the following courses at CSCC to meet these requirements: BIO 1114, BIO 2215, BIO 2300, CHEM 2255, PHYS 1200, PHYS 1201, PHYS 1250, PHYS 1251, and HNTR 1153. If students do not complete one or both courses at CSCC, they will need to complete them at OSU- which may extend their time to graduation. BIO 2215 is required for Pharm.D. admission.

Students must have 2.5 cumulative GPA or higher to be admitted to the BSPS degree. Students will choose their BSPS degree general and advanced 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

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.

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.