



Freshman Year (CSCC)

Autumn Semester		Spring Semester	
ENGL 1100 Composition I	(3)	CHEM 1172 General Chemistry II**	(5)
STAT 1450 The Practice of Statistics**	(4)	BIO 1113 Biological Sciences I**	(4)
CHEM 1171 General Chemistry I**	(5)	Intermediate Composition*	(3)
BTN 1101 Intro to Biotechnology	(3)	BISI 1202 Biotechnology Safety & Measure.	(3)
COLS 1100 First Year Experience	(1)	Social and Behavioral Science*	(3)
	(16)		(18)

Summer (CSCC)

Social and Behavioral Science*	(3)
MATH 1151 Calculus I**	(5)
	(8)

Sophomore Year (CSCC)

Autumn Semester		Spring Semester	
Literature/Cultures & Ideas/Vis/Perf. Arts*	(3)	CHEM 2252 Organic Chemistry II- Lecture**	(5)
CHEM 2251 Organic Chemistry I- Lecture**	(5)	BTN 1299 Biotechnology Research Capstone	(1)
BISI 1203 Biotechnology: Tissue Cult. Tech.	(5)	BISI 1204 Biotechnology: Protein Pur. Tech.	(4)
CHEM 2254 Organic Chemistry I- Lab**	(3)	BIO 2215 Intro to Microbiology	(4)
		Historical Study*	(3)
	(16)		(17)

*Course options to fulfill this requirement are listed on the last 2 pages of this document ** 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)
Pharmacy Major Choice Science Elective	(4)	PHR 4600 Pharmaceutical Sciences Laboratory	(3)
PHR 1100 Pharmaceutical Sciences Survey	(1)	PHR 3100 Physiology for Pharm. Sci.	(4)
PHR 2500 Drug Dev, Disc., & Delivery	(3)	PHR 2101 Career Development in Pharm. Sci.	(0.5)
PHR 2100 Career Development in Pharm. Sci.	(0.5)	PHR 3110 Drugs, Data, and Discourse	(3)
PHR 2530 Intro to Pharm. Sci. Research	(2)		
GENED 2601 Connections Seminar	(1)		
	(16.5)		(15.5)

Senior Year (OSU)

Autumn Semester		Spring Semester	
PHR 4610 Experimental Tech. in Drug Discovery	(4)	Citizenship for Diverse & Just World Theme	(3)
Citizenship for Diverse & Just World Theme	(3)	Pharmacy Major Elective	(3)
Pharmacy Major Elective	(4)	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)
		Elective	(3)
	(16)		(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 with the assumption that students would complete the AS Biotechnology Major before transferring into the stated bachelor's degree. Completing the general Associate of Science degree is also an option and this document can still be used for degree planning. If you have questions, contact a Columbus State Arts and Sciences Academic Advisor and an advisor at The Ohio State University.
- **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 BPS 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 courses 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 to complete CHEM 2252 and 2254 as part of their AS course work. If students do not complete these courses CSCC, they will need to complete them at OSU- which may extend their time to graduation. These courses are not part of the AS Biotechnology plan of study.

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 Biotechnology major 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 Biotechnology major 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 Biotechnology major plan of study may be chosen.