

Freshman Year (CSCC)

Autumn Semester		Spring Semester	
ENGL 1100 Composition I [INST 1500, WI]	3	MATH 1152 Calculus II [MATH 1800]	5
MATH 1151 Calculus I [MATH 1700]	5	ENGL 2767 Writing About Science & Tech. [DS]*	3
CHEM 1171 General Chemistry I [CHEM 1400/1410]**	5	CHEM 1172 General Chemistry II [CHEM 1500/1510]**	5
COLS 1100 First Year Experience Seminar	1	Historical Studies course*	3
Social & Behavioral Science course*	3		
Total hours	17	Total hours	16

Sophomore Year (CSCC)

Autumn Semester		Spring Semester	
PHYS 1250 Calculus-Based Physics I [PHYS 1500, DS]	5	PHYS 1251 Calculus-Based Physics II [PHYS 1600, DS]	5
CHEM 2251 Organic Chemistry I [CHEM 2400]**	5	CHEM 2252 Organic Chemistry II [CHEM 2500]**	5
CHEM 2254 Org. Chem. I Lab [CHEM 2410]**	3	CHEM 2255 Org. Chem. II Lab [CHEM 2510]**	3
MATH 2153 Calculus III [MATH 2700]	5	Social & Behavioral Science course*	3
		Literature/Cultures & Ideas/Visual & Performing Arts course [INST 2600]***	3
Total hours	18	Total hours	19

*Course options listed after degree notes **Courses must be completed with a grade of C or higher to transfer to the Otterbein Chemistry Major. Courses number in [brackets] is the Otterbein equivalent course. WI=Writing Intensive; three are required for an Otterbein degree. DS= Disciplinary Skills; three are required for an Otterbein Degree

Junior Year (Otterbein)

Autumn Semester		Spring Semester	
LFW Lifestyle, Fitness & Wellness Course	1	INST 2200 <u>or</u> 2400 (choose one)	3
FYS First Yr. Sem. <u>or</u> TYS Trans.Yr. Seminar (choose one)	2-3	BMB 2650 Intro. to Biochem. Lab. Techniques	1
CHEM 3100 Analytical Chemistry	3	CHEM 3200 Inorganic Chemistry	3
CHEM 3110 Analytical Chem. Laboratory (WI)	1	CHEM 3210 Inorganic Chem. Laboratory (WI)	1
INST 2200 <u>or</u> 2400 (choose one)	3	CHEM Major Elective	3-4
Elective	3	Elective	3
Elective	3		
Total hours	16-17	Total hours	14-15

Senior Year (Otterbein)

Autumn Semester		Spring Semester	
BMB 4500 Biochemistry I: Biomolecules & Metabolism	3	Writing Intensive Elective (CHEM 4150, BMB 4610 <u>or</u> other WI course)	3
INST 3000 Integrative Seminar	3	CHEM 3950 Research	1-3
CHEM 3400 Physical Chemistry I	3	SYE Senior Year Experience	3
CHEM 3410 Physical Chem. Laboratory (WI)	1	CHEM Major Elective	3-4
CHEM 4150 <u>or</u> 4160 Adv. Lab (choose one)	2	Elective	3
Elective	3		
Total hours	15	Total hours	13-15

- At Otterbein, at least 36 credit hours of coursework must be taken in Otterbein classes. Of these hours: at least 9 credit hours must be taken in each of a student’s majors at the 3000 level or above, at least 5 credit hours (any level) must be taken in each minor, and at least one INST 2XXX thread course, INST 3XXX, and an SYE course must be taken at Otterbein.. Otterbein requires 120 credit hours to complete the bachelor’s degree with an overall GPA of 2.0 or higher.

- ****Students must earn a C or higher in all prerequisite and major course work for the Chemistry major (BS) at Otterbein.** Classes denoted by the double asterisk are prerequisite/major courses for the Chemistry major (BS). Students are encouraged to meet with an Otterbein advisor regarding their major course work and general education course work meant to satisfy Otterbein's general education or INST requirement.

The Chemistry major (BS) at Otterbein University requires calculus-based physics course sequence (PHYS 1250 and 1251 at CSCC) and single-variable calculus sequence (MATH 1151 and 1152 at CSCC). *A multivariable calculus course is not required for the major at Otterbein.* If a student completes this courses as part of their AS Chemistry Bachelor's Degree Transfer Major degree at Columbus State, this course will transfer to Otterbein University as MATH 2700: Multivariable Calculus- a degree elective. Students must complete CHEM 1171, 1172, 2251, 2252, 2254, and 2255 to satisfy the requirements for the AS Chemistry Bachelor's Degree Transfer Major. The Chemistry major (BS) requires 7 credit hours of CHEM major electives chosen from: BMB 4600 & 4610; CHEM 3500, CHEM 3800, CHEM 4400, CHEM 4700, and CHEM 4800.

- **CSCC Degree Plan:** This 2+2 Plan of Study was created with the assumption that students would complete the Chemistry Bachelor's Degree Transfer 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 Otterbein University.
- *****Students can only take 19 hours or more per semester** with permission from a Columbus State Arts and Sciences Academic Advisor. Students must have a GPA of 3.0 or higher and be in full-time course work when permission is sought. Students can find an Arts and Sciences Academic Advisor in Union Hall Room 048K. Students may also take this course during the summer term to lighten the load indicated on this plan.

Suggested Courses to Complete for Otterbein's General Education Requirements and Requirements for the Associate of Arts Degree at Columbus State

Intermediate Composition

For the Intermediate Composition requirement for the AS degree, ENGL 2767: Comp II: Writing about Science and Technology is suggested, but other 2X67 (except ENGL 2267) courses will meet AS degree requirement.

Literature/Cultures & Ideas/Visual & Performing Arts [INST 2600]

For the AS degree, students must complete one Visual and Performing Arts course. Otterbein requires one course from the list below to transfer for INST 2600. For the Literature/Cultures & Ideas/Visual & Performing Arts course, please choose from the list below

ENGL 2274 Intro to Non-Western Literature	HUM 1160 Music and Art Since 1945
ENGL 2276 Women in Literature	MUS 1251 Survey of Music History
ENGL 2281 African American Literature	THEA 1100 Intro to Theatre
HUM 1100 Intro to Humanities	

Historical Study [INST 2800]

For the AS degree, students must complete one Historical Study course. For Otterbein requirements, the course will be chosen from HIST 1181 or 1182 (INST 2800).

HIST 1181 World Civ I Non Western to 1500	HIST 1182 World Civ II Non Western Since 1500
---	---

Social & Behavioral Sciences [INST 2000]

Two Social and Behavioral Sciences courses from two different categories are required for the AS degree at Columbus State. Choosing from the following courses will result in INST 2000 credit transferred to Otterbein. One additional course should be chosen from the AS plan of study under a different category.

Individuals & Groups

ANTH 2202 Peoples & Culture
SOC 2380 American Race & Ethnic Relations

Organizations & Politics

SOC 1101 Introduction to Sociology

Human, Natural & Economic Resources

GEOG 2400 Economic & Social Geography
