

**Columbus State Community College Associate of Science (AS) Degree
Mathematics Bachelor's Degree Transfer Major
Otterbein University – Bachelor of Arts (BA) Degree,
Major: Mathematics (no teacher licensure)
Sample Plan of Study**

Freshman Year (CSCC)

Autumn Semester		Spring Semester	
MATH 1151 Calculus I [MATH 1700]*	5	MATH 1152 Calculus II [MATH 1800] **	5
ENGL 1100 Composition I [INST 1500, WI]	3	ENGL 2767 <u>or</u> Other Intermediate Composition [ENGL 1192, WI, DS]*	3
Literature/Cultures & Ideas/Visual/Performing Arts [INST 2600]*	3	PHYS 1250 Calculus-Based Physics I [PHYS 1500, DS]*	5
Foreign Language [DS] <u>or</u> AS Elective*	4	Foreign Language [DS] <u>or</u> AS Elective*	4
COLS 1100 First Year Experience Seminar	1		
Total hours		Total hours	
	16		17

Sophomore Year (CSCC)

Autumn Semester		Spring Semester	
MATH 2153 Calculus III [MATH 2700]**	5	MATH 2255 Elementary Differential Equations [MATH 3100]**	4
Social Science [INST 2000]*	3	MATH 2568 Linear Algebra [MATH 2500] **	4
Historical Studies [INST 2800]	3	Social Science*	3
PHYS 1251 Calculus-Based Physics II [PHYS 1600, DS]*	5	Natural Science [INST 2400]*	3-5
Total hours		Total hours	
	16		14-16

*Course options listed after degree notes **Courses must be completed with a grade of C or higher to transfer to the Otterbein Mathematics 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	
MATH 1500 Intro to Mathematical Thought	3	MATH 3200 Abstract Algebra I (WI)	3
MATH 3000 Real Analysis (WI)	3	INST 2200 Reflection & Responsibility	3
FYS First Year Seminar <u>or</u> TYS Transfer Year Seminar	2-3	General Elective	3
General Elective	3	General Elective	3
General Elective	3	General Elective	3
LFW Lifestyle Fitness & Wellness Course	1		
Total hours		Total hours	
	15-16		15

Senior Year (Otterbein)

Autumn Semester		Spring Semester	
Mathematics Major Elective	3	Mathematics Major Elective	3
INST 3000 Integrative Seminar	3	SYE Senior Year Experience	3
General Elective	3	General Elective	3
General Elective	3	General Elective	3
General Elective	3	General Elective	3
Total hours		Total hours	
	15		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 Mathematics major (BA) at Otterbein.** Classes denoted by the double asterisk are prerequisite/major courses for the Mathematics major (BA). 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.
- **CSCC Degree Plan:** This Sample Plan of Study was created with the assumption that students would complete the AS Mathematics 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.
- **Mathematics BA Degree at Otterbein:** Students may discuss the option to "upgrade" to a Bachelor of Science (BS) degree with a Mathematics major at Otterbein with their faculty advisor upon enrollment. Some course work required for the BS is offered only every other year and will require individual planning to accommodate, if possible.

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

Intermediate Composition [ENGL 1192, WI, DS]

(Choose one)

ENGL 2367	Composition II	ENGL 2667	Comp. II: Working Class Identity
ENGL 2437	Composition II: Race & Ethnicity	ENGL 2767	Composition II: Writing about Science & Technology (recommended)
ENGL 2567	Composition II: Gender & Identity		

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

(Choose one)

ENGL 2274	Introduction to Non-Western Literature	ENGL 2281	African American Literature
ENGL 2276	Women in Literature	HUM 1100	Intro to the Humanities
ENGL 2280	The English Bible as Literature	HUM 1160	Music and Art Since 1945

Natural Science [INST 2400]

For the AS degree, students must take two to three science courses totaling 10 credit hours or more. At least two courses must have a lab. Otterbein requires one science course from this list labeled INST 240X. Non-lab courses are indicated by italics. The second and third course may be completed from elsewhere on this list or on the AS plan of study.

ASTR 1161	<i>The Solar System (INST 2403)</i>	CHEM 1100	<i>Chemistry & Society (INST 2400)</i>
ASTR 1162	<i>Stars and Galaxies (INST 2403)</i>	CHEM 1111	Elementary Chem. I (CHEM 1100, DS)
BIO 1107	Human Biology (DS)	CHEM 1171	General Chemistry I (DS)
BIO 1111	Intro to Biology (DS)	GEOG 1900	Weather and Climate (INST 2400)
BIO 1127	Intro to Environmental Science (ESCI 1001/INST 2410)	GEOL 1121	Physical Geology (ESCI 1010, DS)
		GEOL 1151	<i>Natural Disasters (INST 2400)</i>

Social Science [INST 2000]

For the AS degree, students must complete two Social & Behavioral Sciences courses. Otterbein required one social and behavioral sciences course from the list below to meet the INST 20XX requirement. The second course should be chosen from a different academic department as listed on the AS plan of study.

ANTH 2202	Peoples & Cultures	SOC 1101	Introduction to Sociology
GEOG 2400	Economic & Social Geography	SOC 2380	American Race & Ethnic Relations
SOC 2202	Social Problems		

Foreign Language

Students may opt to take a foreign language at Columbus State to meet AS and Otterbein requirements. Otterbein requires three Disciplinary Skills courses (DS) and foreign language courses may be used. If a student chooses to take AS electives instead, they will have additional DS course work at Otterbein. Students may select any one language from the following: American Sign Language, Chinese, French, German, Italian, Japanese, or Spanish.

Historical Study [INST 2800]

For the AS degree, students must take one Historical Study course from HIST 1111, 1112, 1181, 1182, 2715, or 2716 to satisfy the CSCC and Otterbein requirements for INST 2800.