



Associate of Science, Systems Engineering Bachelor's Degree Transfer Major 2018–2019

DESCRIPTION:

The Associate of Science degree is designed to satisfy the first two years of a bachelor's degree in majors that require advanced math or science. Formal agreements have been made with colleges and universities which allow for coursework taken in the Associate of Science degree program at Columbus State to transfer and apply to a bachelor's degree.

The Associate of Science, Systems Engineering transfer major is intended to provide students with the first two years of required coursework for Otterbein University's Bachelor of Science degree in Systems Engineering. Systems Engineering is the study of a combination of mechanical, electrical, and industrial engineering concepts.

ADMISSION REQUIREMENTS:

Students may begin this degree during any semester upon admission to the college. Eligibility for specific courses will be determined by evaluation of ACT or SAT scores, previous college credits, and Columbus State placement testing results (if required). Course descriptions and prerequisites are outlined in the Columbus State catalog at <http://www.csc.edu/academics/catalog/>.

ONGOING REQUIREMENTS:

All students must satisfactorily complete at least 61 credit hours of approved courses (a minimum of 20 credit hours must be completed at Columbus State) with an overall grade point average of 2.0 or better for all college-level courses completed at Columbus State. Consult with an Arts and Sciences Academic Advisor for Columbus State degree and graduation planning, assistance with developing and achieving academic goals, and information about transfer resources. Students should research program and admission requirements for their specific intended four-year institution and major early in their college career.

OPPORTUNITIES FOR GRADUATES:

Transfer:

The Associate of Science, Systems Engineering transfer major is designed for students who are planning to transfer to Otterbein University with the goal of completing a bachelor's degree in Systems Engineering. Graduating with the Associate of Science degree includes completion of the Ohio Transfer Module. As a result, Associate of Science graduates have fulfilled most of their general education requirements and once admitted to the four-year program, will be focused on upper-level major courses.

Career:

Research educational requirements, expected earnings, and job market predictions using the online Career Coach tool at <http://csc.edu/careercoach/>.

DEGREE REQUIREMENTS (A.S., SYSTEMS ENGINEERING):**FIRST SEMESTER**

Course	Term	Credits	Milestones/Progress Check
ENGL 1100 or ENGL 1101 Composition I	AU/SP/SU	3	<ul style="list-style-type: none"> Consult an Arts and Sciences Academic Advisor early on to help you select courses required by your transfer institution of choice.
ENGR 1181 Fundamentals of Engineering I	AU/SP/SU	3	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
PHYS 1250 Calculus Based Physics I	AU/SP/SU	5	
MATH 1151 Calculus I	AU/SP/SU	5	
Accumulated Credits Earned		17	

SECOND SEMESTER

Course	Term	Credits	Milestones/Progress Check
ENGR 1182 Fundamentals of Engineering II	AU/SP/SU	3	<ul style="list-style-type: none"> Connect with appropriate University advisor at the Columbus State Transfer Center; visit transfer campus. Apply for scholarships for next autumn semester.
PHYS 1251 Calculus Based Physics II	AU/SP/SU	5	
ENGL 2767 Composition II: Writing about Science & Tech. or other Intermediate Composition course *	AU/SP/SU	3	
MATH 1172 Engineering Mathematics A	AU/SP/SU	5	
Semester hours/Credits		16	
Accumulated Credits Earned		33	Halfway point to A.S. degree!

SUMMER SEMESTER

Course	Term	Credits	Milestones/Progress Check
MATH 2173 Engineering Mathematics B	AU/SP/SU	5	<ul style="list-style-type: none"> Consult an Arts and Sciences Academic Advisor early on to help you select courses required by your transfer institution of choice.
ASC 1190 Critical Thinking	AU/SP/SU	1	
Semester hours/Credits		6	
Accumulated Credits Earned		39	

FOURTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
ENGR 2040 Statics and Intro to Mechanics of Materials	AU/SP/SU	4	<ul style="list-style-type: none"> Submit petition to graduate Reconnect with appropriate University advisor at the Columbus State Transfer Center; visit transfer campus Submit transfer admission application.
GEOG 2400 Economic & Social Geography	AU/SP/SU	3	
MATH 2174 Linear Algebra Differential Equations for Eng.	AU/SP/SU	5	
Semester hours/Credits		12	
Accumulated Credits Earned		51	

FIFTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
ENGR 2350 Engineering Thermal Sciences	AU/SP/SU	4	<p style="text-align: center;">Ready for Graduation!</p>
HUM 1160 Music & Art Since 1945	AU/SP/SU	3	
Historical Study course *	AU/SP/SU	3	
SOC 1101 Intro to Sociology or other Social and Behavioral Science course *	AU/SP/SU	3	
Semester hours/Credits		13	
Accumulated Credits Earned		64	

*Full list of course options: <https://www.csc.edu/academics/transfer/degrees.shtml>

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester

Requirements subject to change.