

CONSTRUCTION SYSTEMS MANAGEMENT MAJOR (A.S.) INTERESTED IN CONSTRUCTION SYSTEMS MANAGEMENT MAJOR (B.S.)

This model plan of study is presented as a suggested path to graduate in 4 years with an Associate of Science Degree with a major in Construction Systems Management and a Bachelor of Science Degree in Construction Systems Management with a major in Construction Systems Management. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet **should not** be used in isolation. In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year (ATI)	Autumn Semester				Spring Semester			
Benchmarks <i>MATH 1148 should be completed by the end of this year.</i> <i>ENGLISH 1110.01 should be completed by the end of this year.</i> <i>Begin to consider study abroad programs.</i>	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
	BUSTEC	1202T	Software Applications	1	AEDECON	2001	Principles of Food and Resource Economics ^a	3
	ENGTECH	1201.02T	Exploring Construction Careers and Industry	.5	CRPSOIL	2300T	Intro to Soil Science	3
	ENGTECH	2110T	Construction Drawing & Basic Estimating	1	CRPSOIL	2301T	Intro to Soil Science Lab	1
	ENGTECH	2120T	Building Science: Methods & Materials	4	CONSYSM	2305	Prof. Development I	2
	ENGLISH	1110.01	First-Year English Composition	3	ENGTECH	2121T	Drafting & CAD	2
	GENSTDS	1201.01T	College Orientation	.5	ENGTECH	2600T	Const. Safety and Health	2
	MATH	1148	College Algebra	4	GENED	1201	GE Launch Seminar	1
							GE Lit, Vis and Perf Arts	3
				Total: 14			Total: 17	
							Summer Semester	
	ENGTECH	2191.01T	Const. Mgmt. Internship					2
Sophomore Year (ATI)	Autumn Semester				Spring Semester			
Benchmarks <i>Apply to graduate from ATI at least one semester before the semester of your graduation.</i> <i>Maintain at least a 2.0 CPHR.</i> <i>Graduate with Associate of Science Degree.</i>	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
	AGRCOMM	3130	Oral Expression in Ag. ^a	3	ENGTECH	2160T	Estimating and Scheduling	2
	ENGTECH	2310T	Building Science: Electrical & Lighting Systems	3	ENGTECH	2170T	Const. Project Mgmt.	2
	ENGTECH	2440T	Site Development & Surveying	4	ENGTECH	2240T	Welding Technology	3
	PHYSICS	1200	Mechanics, Kinematics, Fluids, Waves	4-5	ENGTECH	2345T	Building Science: Mechanical Systems	3
			GE Hist & Cultural Studies	3			GE R.E. & G. Diversity	3
				Total: 17-18			Total: 13	
					Total credit hours for Associate of Science Degree: 63-64			
Junior Year (Columbus)	Autumn Semester				Spring Semester			
Benchmarks <i>Half of Construction Management Supporting Courses should be completed by the end of this year.</i> <i>Apply to graduate from Columbus at least three semesters before the semester of your graduation.</i>	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
	AEDECON	2105	Managerial Rec. & Analysis ^a	3	AEDECON	2005	Data Analysis for Agribus.	3
	CONSYSM	2220	IT for Construction	3	AEDECON	3170	Agribusiness Law ^a	3
	CONSYSM	3450	Estimating for Constr.	4	CONSYSM	3451	Scheduling Const. Projects	4
	CONSYSM	3545	Structures for Const. Mgr. I	3	CONSYSM	3546	Structures for Const. Mgr. II	3
			GE Citizenship ^b	4	EARTHSCI	1121	The Dynamic Earth	3
					EARTHSCI	1200	Intro. to Earth Science Lab	1
				Total: 17			Total: 17	
Senior Year (Columbus)	Autumn Semester				Spring Semester			
Benchmarks <i>Maintain at least a 2.0 CPHR.</i> <i>Graduate with Bachelor of Science Degree.</i>	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
	AEDECON	3101	Prin. Agribusiness Mgmt. ^a	3	BUSML	3241	Entrepreneurial Marketing	3
	CONSYSM	4605	Prof. Development II	1	CONSYSM	4900	Const. Mgmt. Capstone	3
	CONSYSM	4641	Const. Project Mgmt.	2	CONSYSM	5670	Green Bldg. & Sust. Const.	3
	CONSYSM	4642	Const. Contracts & Docs	3	CONSYSM	5680	Const. Renov. & Demo.	3
	CONSYSM	4660	Heavy Const. Mgmt.	3			Open Elective	2
			GE Theme Choice #1 ^b	3	GENED	4001	GE Reflection	1
			GE Theme Choice #2 ^b	3				
				Total: 18			Total: 15	
					Total credit hours for Bachelor of Science Degree: 130			

^a One possible course from approved CFAES GE list or B.S. major requirement that has multiple options, as outlined in corresponding *Degree Requirements* document.

² Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol on the Degree Requirements document.

CONSTRUCTION SYSTEMS MANAGEMENT MAJOR (A.S.) INTERESTED IN CONSTRUCTION SYSTEMS MANAGEMENT MAJOR (B.S.)

This advising sheet is for Ohio State ATI students that wish to earn both an Associate of Science (A.S.) Degree with a major in Construction Systems Management and a Bachelor of Science (B.S.) Degree with a major in Construction Systems Management. The tables below outline the complete degree requirements to earn a B.S. in Construction Systems Management with a major in Construction Systems Management. The underlined courses are also the complete set of courses required for the A.S. Construction Systems Management major. These courses can count toward both degree programs simultaneously.

NOTE: This sheet **should not** be used in isolation. In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.

Table 1. Degree Requirements			
Subject	Course Options	Hours	✓
GE Launch Seminar	<u>GENED 1201</u>	1	
Writing and Information Literacy	<u>ENGLISH 1110.01</u>	3	
Mathematical & Quantitative Reasoning/Data Analysis	<u>MATH 1148</u>	4	
Literary, Visual and Performing Arts	<u>Student Choice</u>	3	
Historical & Cultural Studies	<u>Student Choice</u>	3	
Natural Science	<u>PHYSICS 1200</u>	5	
Social & Behavioral Sciences	<u>AEDECON 2001</u> or ECON 2001.01	3	
Race, Ethnic and Gender Diversity	<u>Student Choice</u>	3	
Theme: Citizenship for a Diverse & Just World ^a	<u>Student Choice</u>	4-6	
Theme: Student Choice ^a	<u>Student Choice</u>	4-6	
GE Reflection	GENED 4001	1	
Survey Courses	<u>GENSTDS 1201.01T*</u> OR FAES 1100 and <u>ENGTECH 1201.02T*</u> OR CONSYSM 1100	.5 .5	
Oral Expression	<u>AGRCOMM 3130</u> OR COMM 2110	3	
Additional Science	EARTHSCI 1121 & 1200	4	
Internship	<u>ENGTECH 2191.01T*</u> or FAES 3191 and CONSYSM 3191	2	
CONSYSM Core	See Table 2.	55	
Major Supporting Coursework	See Table 3.	7	
Electives	(May include <u>ENGTECH 2160T*</u> and <u>BUSTEC 1202T*</u>)	2-6	
Minimum Total Credit Hours		130	

Table 2. Construction Systems Management Core Requirements		
Course(s)	Hours	✓
<u>ENGTECH 2110T*</u> Construction Drawing& Basic Estimating and <u>ENGTECH 2170T*</u> Construction Project Management OR CONSYSM 2205 Introduction to Construction Management	3	
CONSYSM 2220 Information Technology for Construction	3	
<u>ENGTECH 2240T*</u> Welding Technology or CONSYSM 2240 Construction Materials and Methods I	3	
<u>ENGTECH 2120T*</u> Building Science: Methods & Materials OR CONSYSM 2241 Construction Materials and Methods II	3	
<u>CONSYSM 2305</u> Professional Development I	2	
<u>ENGTECH 2310T*</u> Building Sci: Electrical & Lighting Systems OR CONSYSM 2310 Electrical & Lighting Systems for Buildings	3	
<u>ENGTECH 2345T*</u> Building Science: Mechanical Systems OR CONSYSM 2345 Mechanical Systems for Buildings	3	
<u>ENGTECH 2440T*</u> Site Development & Surveying CONSYSM 2440 Construction Surveying & Site Development	4	
<u>ENGTECH 2600T*</u> Construction Safety & Health OR CONSYSM 2600 Construction Safety and Health	3	
CONSYSM 3450 Estimating for Construction	4	
CONSYSM 3451 Scheduling Construction Projects	4	
CONSYSM 3545 Structures for Construction Managers I	3	
CONSYSM 3546 Structures for Construction Managers II	3	
CONSYSM 4605 Professional Development II	1	
CONSYSM 4641 Construction Project Management	2	
CONSYSM 4642 Construction Control: Contracts & Documents	3	
CONSYSM 4660 Heavy Construction Management	3	
CONSYSM 4900 Construction Management Capstone	3	
<u>ENGTECH 2121T*</u> Drafting & Computer-Aided Design OR CONSYSM 2210 Graphic Presentation	2	
Major Electives (see next page)	18	
Total CONSYSM Core Credit Hours	73	

Table 3. Major Supporting Coursework		
Course(s)	Hours	✓
CRPSOIL 2300T* and CRPSOIL 2301T* Intro. to Soil Science OR ENR 3000 and ENR 3001 Soil Science and Lab	4	
COMLDR 3537, AEDECON 2005, ANIMSCI 2260, HCS 2260, ENR 2000, or STAT 1450 Data Analysis	3	
Total Supporting Course Credit Hours	7	

^a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol.

* courses are only offered at the Wooster (ATI) Campus

Note: A capital **OR** separates a pair of *equivalent* courses, a lowercase **or** separates a choice between *different* courses that fulfill the same requirement.

Additional Bachelor's Degree Requirements:

1. A 2.00 cumulative CPHR is required as well as a 2.00 CPHR in the major and minor coursework.
2. Students must complete a minimum of 30 credit hours at The Ohio State University with at least 12 in the department in Columbus offering the major.
3. Applications to graduate must be submitted at least three semesters in advance.

CONSYSM Electives (18 credit hours)		
Course(s)	Hours	✓
Management (choose one)		
AEDECON 3101 Principles of Agribusiness Management OR BUSTEC 2241T* Small Business Management	3	
BUSMHR 3100 Foundations of Management and HR	3	
Accounting (choose one)		
AEDECON 2105 Managerial Records and Analysis	3	
ACCTMIS 2200 Introduction to Accounting I	3	
ACCTMIS 2000 Foundations of Accounting	3	
Business Law (choose one)		
AEDECON 3170 Agribusiness Law OR BUSTEC 2247T* Business Law	3	
BUSFIN 3500 Legal Environment of Business (1.5) and BUSFIN 4510 Legal Business Issues (1.5)	3	
Select 9 hours from the options below, at least one in each category:		
Business Electives		
ACCTMIS 2300 Introduction to Accounting II	3	
AEDECON 3102 Principles of Agribusiness Marketing OR BUSTEC 2231T* Fundamentals of Marketing	3	
BUSML 3150 Foundations of Marketing	3	
BUSML 3241 Intro to Entrepreneurial Marketing	3	
AEDECON 3103 Principles of Agribusiness Finance OR BUSTEC 2249T* Fundamentals of Business Finance	3	
BUSFIN 3120 Foundations of Finance	3	
BUSFIN 3290 Foundations of Entrepreneurial Finance	3	
BUSFIN 3400 Introduction to Real Estate	3	
BUSFIN 4412 Real Estate Law	3	
BUSOBA 3130 Foundations of Operations Management	3	
BUSMHR 3510 Innovation and Entrepreneurship	3	
AEDECON 3160 Human Resource Mgt in Small Business OR BUSTEC 2244T* Human Resource Mgt. & Leadership	3	
COMLDR 3530 Foundations of Pers. & Prof. Leadership	3	
COMLDR 4430 Leadership in Teams and Community	3	
Technical Electives		
CONSYSM 5670 Green Bldg. & Sustainable Construction	3	
CONSYSM 5680 Constr. Renovation and Demolition	3	
GEOG 5210 Fundamentals of GIS	3	
Total Supporting Course Credit Hours	18	

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