

## Bachelor of Science in Construction Systems Management Major: Construction Systems Management

*This program specializes in the management and operation of the business and technological aspects of the construction industry. Students develop managerial skills to prepare them for a career in coordinating and directing activities in a range of industry sectors including residential, commercial, and heavy construction. Students in this major will complete a minimum of 130 hours outlined as follows.*

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	<b>GENED 1201</b>	1
Writing and Information Literacy	Major requirement: <b>ENGLISH 1110 *</b> (or Student Choice – see below)	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: <b>MATH 1148 *</b> (or Student Choice – see below)	4
Literary, Visual and Performing Arts	<b>Student Choice</b>	3
Historical & Cultural Studies	<b>Student Choice</b>	3
Natural Science	Major requirement: <b>PHYSICS 1200 *</b> (or Student Choice – see below)	5
Social & Behavioral Sciences	Major requirement: <b>AEDECON 2001 or ECON 2001.01 *</b> (or Student Choice – see below)	3
Race, Ethnic and Gender Diversity	<b>Student Choice</b>	3
Theme: <b>Citizenship for a Diverse &amp; Just World<sup>a</sup></b>	<b>Student Choice</b>	4-6
Theme: <b>Student Choice<sup>a</sup></b>	<b>Student Choice</b>	4-6
GE Reflection	<b>GENED 4001</b>	1
<b>General Education Credit Hours:</b>		<b>34-38</b>

\* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student chooses an alternative course in this GE category, **they must also complete this course.**

B.S. in Construction Systems Management Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	<b>FAES 1100 (0.5) &amp; CONSYSM 1100 (0.5)</b>	1
Oral Expression	<b>AGRCOMM 3130 or COMM 2110</b>	3
Additional Science	<b>EARTHSCI 1121 &amp; 1200</b>	4
Internship	<b>FAES 3191 &amp; CONSYSM 3191</b>	2
<b>Credit Hours:</b>		<b>10</b>

<sup>a</sup> 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.

Major Supporting Coursework		
Requirement	Course	Hours
Soil Science	<b>ENR 3000 &amp; 3001</b>	4
Data Analysis	<b>COMLDR 3537, AEDECON 2005, ANIMSCI 2260, HCS 2260, ENR 2000, or STAT 1450</b>	3
<b>Credit Hours:</b>		<b>7</b>

Major Coursework		
Course	Title	Hours
<b>CONSYSM 2205</b>	Intro to Construction Systems Management	3
<b>CONSYSM 2210</b>	Graphic Presentation	2
<b>CONSYSM 2220</b>	Information Technology for Construction	3
<b>CONSYSM 2240</b>	Construction Materials & Methods I	3
<b>CONSYSM 2241</b>	Construction Materials & Methods II	3
<b>CONSYSM 2305</b>	Professional Development I	2
<b>CONSYSM 2310</b>	Electrical & Lighting Systems for Buildings	3
<b>CONSYSM 2345</b>	Mechanical Systems for Buildings	3
<b>CONSYSM 2440</b>	Construction Surveying & Site Development	4
<b>CONSYSM 2600</b>	Construction Safety and Health	3
<b>CONSYSM 3450</b>	Estimating	4
<b>CONSYSM 3451</b>	Scheduling	4
<b>CONSYSM 3545</b>	Structures for Construction Managers I	3
<b>CONSYSM 3546</b>	Structures for Construction Managers II	3
<b>CONSYSM 4605</b>	Professional Development II	1
<b>CONSYSM 4641</b>	Construction Project Management	2
<b>CONSYSM 4642</b>	Construction Contracts and Documents	3
<b>CONSYSM 4660</b>	Heavy Construction Management	3
<b>CONSYSM 4900</b>	Construction Management Capstone	3
<b>CSM Major Electives: See pg. 2</b>		18
<b>Credit Hours:</b>		<b>73</b>

General Education	<b>34-38</b>
Degree Requirements	<b>10</b>
Major Supporting Courses	<b>7</b>
Major	<b>73</b>
Open Electives	<b>2-6</b>
<b>Minimum Total Credit Hours</b>	<b>130</b>

CSM Electives (18 credit hours)		
<b>Management (choose one)</b>		
AEDECON 3101	Principles of Agribusiness Management	3
BUSMHR 3100	Foundations of Management and HR	3
<b>Accounting (choose one)</b>		
AEDECON 2105	Managerial Records and Analysis	3
ACCTMIS 2200	Introduction to Accounting I	3
ACCTMIS 2000	Foundations of Accounting	3
<b>Business Law (choose one)</b>		
AEDECON 3170	Agribusiness Law	3
BUSFIN 3500 & 4510	Legal Environment of Business (1.5) & Legal Business Issues (1.5) – <i>both required</i>	3
<b>Select 9 hours from the options below, at least one in each category:</b>		
<b>Business Electives</b>		
ACCTMIS 2300	Introduction to Accounting II	3
AEDECON 3102	Principles of Agribusiness Marketing	3
BUSML 3150	Foundations of Marketing	3
BUSML 3241	Intro to Entrepreneurial Marketing	3
AEDECON 3103	Principles of Agribusiness 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	3
COMLDR 3530	Foundations of Pers. And Prof. Leadership	3
COMLDR 4430	Leadership in Teams and Community	3
<b>Technical Electives</b>		
CONSYM 5670	Green Bldg. and Sustainable Construction	3
CONSYM 5680	Constr. Renovation and Demolition	3
GEOG 5210	Fundamentals of GIS	3

### **Policies and General Requirements for Degree**

- A minimum of **130** total credit hours. (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075; do not count toward the 130-hour minimum requirement for the BS in Construction Systems Management)
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ♣ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in CSM must complete an internship of 2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

## 4-Year Course Plan B.S. in Construction Systems Management

This model plan of study is presented as a suggested path to graduate in four years. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements for their catalog year 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. To graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement -Complete at least one science -Complete English 1110.01	FAES 1100	College Survey	.5	CONSYSTM 2240	Const. Mat. & Methods I	3
	CONSYSTM 1100	Dept Survey	.5	CONSYSTM 2210	Graphic Presentation	2
	MATH 1148	College Algebra	4	GE: WIL ENGLISH 1110	First-Year English Comp.	3
	CONSYSTM 2205	Intro to Construction Management	3	PHYSICS 1200	Mechanics, Kinetics, Fluids, Waves	5
	GE: SBS AEDECON 2001	Prin. of Food & Res. Econ.	3	ENR 3000 & 3001	Soil Science	4
	GE: Hist. & Cultural	Choose from GE options	3			
	GENED 1201	GE Launch Seminar	1			
		<b>Total:</b>	<b>15</b>		<b>Total:</b>	<b>17</b>
<b>Hours: 32</b>						
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete three science courses by the end of this year -Begin to consider an internship location	CONSYSTM 2241	Const. Mat. & Methods II	3	GE: Theme Choice #1 <sup>b</sup>	Choose from GE options	3
	GE: Lit, Vis and Perf Arts	Choose from GE options	3	AEDECON 2005 <sup>a</sup>	Data Analysis for Agribus.	3
	CONSYSTM 2310	Electrical & Light. Systems	3	CONSYSTM 2345	Mech. Systems for Bldgs.	3
	CONSYSTM 2305	Prof. Development I	2	CONSYSTM 2440	Constr. Survey & Site Dev.	4
	CONSYSTM 2220	IT for Construction	3	CONSYSTM 2600	Const. Safety & Health	3
	AGRCOMM 3130	Oral Communication	3			
		<b>Total:</b>	<b>17</b>		<b>Total:</b>	<b>16</b>
<b>Hours: 65</b>						
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate -Secure internship	CONSYSTM 3450	Estimating	4	CONSYSTM 3451	Scheduling	4
	CONSYSTM 3545	Structures for Const. I	3	CONSYSTM 3546	Structures for Const. II	3
	GE: R, E, G, Div.	Choose from GE options	3	EARTHSCI 1121 & 1200	The Dynamic Earth	4
	GE: Citizenship <sup>b</sup>	Choose from GE options	4	AEDECON 3170 <sup>a</sup>	Agribusiness Law	3
	AEDECON 2105 <sup>a</sup>	Managerial Records	3	Open Elective		1
		<b>Total:</b>	<b>17</b>		<b>Total:</b>	<b>15</b>
<b>Hours: 99</b>						
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements -Meet with a Career Services Advisor	CONSYSTM 4641	Const. Project Mgmt.	2	CSM 4900	Capstone	3
	CONSYSTM 4642	Const. Contracts/Docs	3	BUSML 3241 <sup>a</sup>	Entrepreneurial Marketing	3
	CONSYSTM 4605	Prof Dev II	1	Open Elective		3
	CONSYSTM 4660	Heavy Const. Mgmt.	3	CONSYSTM 5670 <sup>a</sup>	Green Bldg. & Sust. Const.	3
	GE: Theme Choice #2 <sup>b</sup>	Choose from GE options	3	CONSYSTM 5680 <sup>a</sup>	Cont. Renov. & Demo.	3
	CONSYSTM 3191	Internship	2	GENED 4001	GE Reflection	1
	FAES 3191	Internship	0			
	AEDECON 3101 <sup>a</sup>	Prin. of Agribus. Mgmt.	3			
	<b>Total:</b>	<b>17</b>		<b>Total:</b>	<b>16</b>	
<b>Hours: 130</b>						
<b>Total credit hours for Bachelor of Science in Construction Systems Management Degree: 130</b>						

<sup>a</sup> One possible course from approved major requirement that has multiple options, as outlined in corresponding Degree Requirements document.

<sup>b</sup> 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.

## 4-Year Completion Checklist

### B.S. in Construction Systems Management

Freshman Year	Autumn Semester			Spring Semester		
<b>Benchmarks</b> <input type="checkbox"/> Complete Math requirement  <input type="checkbox"/> Complete at least one science  <input type="checkbox"/> Complete English 1110.01  <b>Hours:</b> ____	<b>Course/Requirement</b> FAES 1100 CONSYSM 1100   Notes:	✓	<b>Course/Requirement</b>     Notes:	✓		
Sophomore Year	Autumn Semester			Spring Semester		
<b>Benchmarks</b> <input type="checkbox"/> Complete three science courses by the end of this year  <input type="checkbox"/> Begin to consider an internship location  <b>Hours:</b> ____	<b>Course/Requirement</b>     Notes:	✓	<b>Course/Requirement</b>     Notes:	✓		
Junior Year	Autumn Semester			Spring Semester		
<b>Benchmarks</b> <input type="checkbox"/> Apply to graduate  <input type="checkbox"/> Secure internship  <b>Hours:</b> ____	<b>Course/Requirement</b>     Notes:	✓	<b>Course/Requirement</b>     Notes:	✓		
Senior Year	Autumn Semester			Spring Semester		
<b>Benchmarks</b> <input type="checkbox"/> Meet graduation requirements  <input type="checkbox"/> Meet with a Career Services Advisor  <b>Hours:</b> ____	<b>Course/Requirement</b>     Notes:	✓	<b>Course/Requirement</b>     Notes:	✓		
<b>Total credit hours for Bachelor of Science in Construction Systems Management Degree 130</b>						

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