

MAJOR IN ENVIRONMENTAL HORTICULTURE, LANDSCAPE DESIGN AND CONTRACTING CONCENTRATION

Landscape Design and Contracting is an academic program focusing on the profession, art, science and business of landscape design-build. This form of business typically incorporates complete landscape services from design through installation, and often includes maintenance. All facets of the landscape project are delivered by one company through a single contract or through several contracts. The design-build concept makes the construction process an integral part of the design process, allowing streamlined design modifications to happen on site during construction. The designer interacts directly with the various landscape materials and is responsible for their proper installation. Designers who are involved in the construction process find that their creativity is energized by this contact and that there is an improved knowledge of the practicalities of various design options.

Learning Objectives

Upon successful completion of this concentration, students will be able to:

1. Focus on medium to small scale projects with an emphasis on private residential and commercial sites as opposed to large public spaces.
2. Learn to design decks, patios, retaining walls, barriers, water features and other structures important to garden design.
3. Learn environmental relationships of plants, insects and soils and focus on identification, culture and management of plants in the landscape including woody, herbaceous, and turf grass plants.
4. Strategize verbal communication, technical writing and economics with a focus on accounting, cost estimating and other applied strategies for managing landscape design, construction and maintenance.
5. Develop proficiency with computers and emphasize computer aided design (CAD) for small scale landscape projects and computerized landscape estimating.

Requirements Effective Fall 2025

Freshman

		AUCC	Credits
CHEM 107	Fundamentals of Chemistry (GT-SC2)	3A	4
CO 150	College Composition (GT-CO2)	1A	3
HORT 100	Horticultural Science	3A	4
HORT 110	Landscape Design and Contracting Pathways		1
MATH 117	College Algebra in Context I (GT-MA1)	1B	1
MATH 118	College Algebra in Context II (GT-MA1)	1B	1
MATH 125	Numerical Trigonometry (GT-MA1)	1B	1
SPCM 200	Public Speaking		3
Select one course from the following:			3-4
BUS 150	Business Computing Concepts and Applications		
CS 110	Personal Computing		
1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		1C	3
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3

Total Credits

30-31

Sophomore

ACT 205	Fundamentals of Accounting		3
CON 131	Graphic Communications for Construction		2
CON 261	Construction Surveying		3
HORT 221	Landscape Plants		4
HORT 231	Landscape Graphics Studio		4
HORT 232	Principles of Landscape Design		4
HORT 487	Internship		3
SOCR 240	Introductory Soil Science		4
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3

Social and Behavioral Sciences (<https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences>) 3C 3

Total Credits 33

Junior

HORT 322	Herbaceous Plants		3
HORT 335	Landscape Structures		4
HORT 336	Landscape Grading and Drainage Studio		4
HORT 368/LAND 368	Landscape Irrigation and Water Conservation		3
HORT 465	Landscape Estimating		3
LSPA 100	First-Year Spanish I		5
Select one course from the following:			3
AREC 202	Agricultural and Resource Economics (GT-SS1)	3C	
ECON 202	Principles of Microeconomics (GT-SS1)	3C	
Advanced Writing (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)			2 3

Total Credits 28

Senior

AB 420	Horticultural Entomology		2
HORT 341	Turfgrass Management		3
HORT 431	Planting Design Studio	4A	4
HORT 432	Intensive Landscape Design Studio	4B,4C	5
HORT 464A	Arboriculture		3
HORT 479	Professional Landscape Practices		2
Business Electives ¹			3
Electives ²			6-7

Total Credits 28-29

Program Total Credits: 120

- ¹ Select from the following subject codes: ACT, AREC, BUS, CIS, FIN, MGT, MKT, or REL; or ECON 240, ECON 335, ECON 340, ECON 346
- ² Select enough elective credits to bring the program to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).

Major Completion Map

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
HORT 100	Horticultural Science	X		3A	4
HORT 110	Landscape Design and Contracting Pathways	X			1
MATH 117	College Algebra in Context I (GT-MA1)	X		1B	1
MATH 118	College Algebra in Context II (GT-MA1)	X		1B	1
Select one course from the following:					3-4
BUS 150	Business Computing Concepts and Applications				
CS 110	Personal Computing				
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)				3D	3

Total Credits 13-14

Semester 2		Critical	Recommended	AUCC	Credits
CHEM 107	Fundamentals of Chemistry (GT-SC2)	X		3A	4
CO 150	College Composition (GT-CO2)	X		1A	3
MATH 125	Numerical Trigonometry (GT-MA1)			1B	1

SPCM 200	Public Speaking				3
1C	(https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		1C		3
Arts and Humanities	(https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B		3
Total Credits					17
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
ACT 205	Fundamentals of Accounting				3
CON 131	Graphic Communications for Construction	X			2
HORT 221	Landscape Plants				4
HORT 231	Landscape Graphics Studio	X			4
SOCR 240	Introductory Soil Science	X			4
Total Credits					17
Semester 4		Critical	Recommended	AUCC	Credits
CON 261	Construction Surveying				3
HORT 232	Principles of Landscape Design	X			4
HORT 487	Internship				3
Arts and Humanities	(https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3B	3
Social and Behavioral Sciences	(https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			3C	3
HORT 221 must be completed by the end of Semester 4.		X			
Total Credits					16
Junior					
Semester 5		Critical	Recommended	AUCC	Credits
HORT 322	Herbaceous Plants	X			3
HORT 335	Landscape Structures	X			4
HORT 465	Landscape Estimating				3
Select one course from the following:					3
AREC 202	Agricultural and Resource Economics (GT-SS1)			3C	
ECON 202	Principles of Microeconomics (GT-SS1)			3C	
Total Credits					13
Semester 6		Critical	Recommended	AUCC	Credits
HORT 336	Landscape Grading and Drainage Studio	X			4
HORT 368/ LAND 368	Landscape Irrigation and Water Conservation				3
LSPA 100	First-Year Spanish I				5
Advanced Writing	(https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)			2	3
Total Credits					15
Senior					
Semester 7		Critical	Recommended	AUCC	Credits
AB 420	Horticultural Entomology	X			2
HORT 341	Turfgrass Management	X			3
HORT 431	Planting Design Studio	X		4A	4
HORT 464A	Arboriculture	X			3
Elective					2-3
HORT 465 and HORT 487 must be completed by the end of Semester 7.		X			
Total Credits					14-15
Semester 8		Critical	Recommended	AUCC	Credits
HORT 432	Intensive Landscape Design Studio	X		4B,4C	5
HORT 479	Professional Landscape Practices	X			2

Business Elective	X	3
Electives		4
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.	X	
Total Credits		14
Program Total Credits:		120