Landscape Contracting Student Handbook

2020-2021



PennState College of Agricultural Sciences Department of Plant Science Undergraduate Advising Office 117 Tyson Building University Park, PA 16802 plantscience.psu.edu

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Introduction

Welcome to the Department of Plant Science at Penn State! This student hand book is designed to give you an overview of the Landscape Contracting major and to provide you with information related to graduation requirements, career opportunities and course curriculum.

Our goal is to prepare students to succeed in a broad range of careers related to the design, construction and management of landscapes. We will meet this objective by providing students with a large selection of rigorous current and relevant courses in traditional plant science disciplines including horticulture, plant identification, landscape design and construction, computer applications in landscape contracting, entomology, plant pathology, and soil science along with supporting courses offered by other colleges at Penn State.

Major Overview

Landscape Contracting is a professional program that studies the art and science of design, construction, and management of landscape spaces. Emphasis is placed upon the technical and creative skills that serve as the foundation of the profession. Design projects are focused on residential sites and garden development, while construction technology and landscape management processes expand into commercial applications as well.

Students in the Landscape Contracting major will learn how to construct, establish, and maintain landscapes from small residential projects to large commercial and industrial projects, as well as produce plans for small-scale residential and commercial sites. Students develop skills in construction, site design, plant material usage, plant establishment, and landscape maintenance. Students are also educated in areas such as graphics, surveying, soils, turfgrass management, weed and pest management, and in business operations.

Students are encouraged to obtain on-the-job experience in landscape contracting by working with a landscape maintenance or construction firm, or other related business. Credits for this experience are available for those who choose to enroll in an internship.

A wide variety of opportunities exist for landscape contracting graduates. Employment opportunities may be found with design/build firms, landscape management firms, nurseries, or garden centers. Others may choose to work for municipalities, golf courses, parks, or botanical gardens.

For more information about the program, please contact:

Margaret Hoffman, Ph.D. Program Coordinator, Landscape Contracting Department of Plant Science 306 Tyson Building University Park, PA 16802 <u>mch7@psu.edu</u> (814) 863-6167

Advising Information

Advising at Penn State should be viewed as a shared responsibility between the adviser and the advisee. Active participation in both parties is the key to successful advising.

When you enter the Landscape Contracting major you will be assigned a faculty adviser who will work in tandem with the department's advising coordinator. Your advisers will help you understand your academic strengths and help you achieve your educational goals. Your advisers will also provide guidance with academic planning, career and internship opportunities, and recommend appropriate course selections.

Students are responsible for developing and implementing their academic plan in conjunction with a Landscape Contracting adviser. Your adviser can be an invaluable resource and mentor. Students are encouraged to meet with their adviser on a regular basis (at least once a semester). Email is the most effective method for arranging an appointment or for getting a question answered by your adviser. Contact them well in advance of registration and other academic deadlines.

Students should take an active role in planning their course work in order to meet all requirements and to graduate in a timely manner. Keep track of your progress by reviewing your Degree Audit on LionPath (<u>lionpath.psu.edu</u>) and updating your Landscape Contracting checksheet (pages 8-9, depending on your option) each semester.

PLEASE NOTE: Starting summer 2018, all new students will follow the new General Education "Integrative Studies" Requirements. Students must complete 6 credits of Inter-Domain courses or 6 credits of Linked courses. <u>BOTH courses in a Linked course combination must be completed to satisfy</u> the requirement. "Z" is the suffix at the end of a course number used to designate a Linked course. "N" is the suffix at the end of a course number used to designate an Inter-Domain course. Linked and Inter-Domain courses can also satisfy GA, GH, GS, GN requirements.

Your advisers are committed to making your experience at Penn State enjoyable and fulfilling. Please let us know how we can help you achieve your educational and personal goals. We look forward to working with you in the Landscape Contracting major!

For more information about advising, please contact:

Tarrah Geszvain Advising Coordinator, Department of Plant Science 117 Tyson Building University Park, PA 16802 <u>thg110@psu.edu</u> (814) 863-6087

Program Options

DESIGN/BUILD OPTION:

This option focuses on the development of skills in the planning and implementation of landscape projects. Students in this option will take several design and construction-based classes such as Computer Aided Applications in Landscape Contracting, Landscape Construction and Planting Design. Employment opportunities for student in the Design/Build option exist with landscape contracting companies in landscape construction and design, project estimating and bidding, and marketing and sales.

MANAGEMENT OPTION:

This option provides professional education in the management of landscapes. Students in this option will take courses in Landscape Contracting Design/Build Principles, Turf and Ornamental Weed Control, Plant Pathology, Entomology, and Soil Science. Employment opportunities include positions with landscape contracting companies as field managers, horticulturalists, crew foreman and leaders, and lawn and golf course technicians.

Recommended Academic Plan for Landscape Contracting Major – Design/Build Option University Park

Semester 1	Credits	Semester 2	Credits
Humanities (GH)**	3	LARCH 060 – History of Design on the Land (GA)	3
AG 150S – First year seminar (S)	2	MATH 026 – Plane Trigonometry (GQ)	3
ENGL 015 – Rhetoric and Composition (GWS)	3	CAS 100 – Effective Speech (GWS)	3
Quantification (GQ)	3	AG BM 101 – Economic Principles of Agribusiness	3
		Decision Making (GS), ECON 014 – Principles of	
		Economics (GS), ECON 102 – Microeconomics	
		Analysis and Policy (GS), OR ECON 104 –	
		Introductory Macroeconomic Analysis and Policy (GS)	
		US Cultures (US)**	0-3
HORT 101 – Horticultural Sciences(GN)	3		
Social and Behavioral Sciences (GS)**	3		
Total Credits:	17	Total Credits:	12-15
Semester 3	Credits	Semester 4	Credits
HORT 131 – Herbaceous Perennial and Annual ID	3	SOILS 101 – Introductory Soil Science (GN)	3
BA 250 – Small Business Management or	3	ACCTG 211 – Financial and Managerial Accounting	4
HORT 455 – Retail Horticulture Business Management or		for Decision Making	
BA 304 – Management and Organization			
General Health and Wellness (GHW)	1.5	HORT 220 – CAD Applications in Landscape	3
		Contracting	
<i>BIOL 127</i> – Plant Biology (GN) OR	3-4	International Cultures **	0-3
BIOL 110 – Basic Concepts and Biodiversity (GN)			
SPAN 001 – Elementary Spanish I OR SPAN 002 -	4	ART 020 (GA)	3
Elementary Spanish II OR SPAN 105 – Spanish for Students			
in the field of Agricultural Sciences			
HORT 120 – Computer Applications for Landscape	2	General Health and Wellness (GHW)	1.5
Contracting			
	465475	Tatal Caselina	
Total Credits:	16.5-17.5	Total Credits:	14.5-17.5
Total Credits: Semester 5	Credits	Semester 6	Credits
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN)	Credits 3	Semester 6 HORT 464 – Landscape Construction I	Credits 4
Total Credits: Semester 5	Credits	Semester 6	Credits
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN)	Credits 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and	Credits 4
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials	Credits 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance	Credits 4 4
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design	Credits 3 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)**	Credits 4 4 3
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR	Credits 3 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)**	Credits 4 4 3
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass	Credits 3 3 3 1 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below)	Credits 4 4 3 2-3
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics	Credits 3 3 3 3 1	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below)	Credits 4 4 3 2-3
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective	Credits 3 3 3 1 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8	Credits 4 4 3 2-3 3
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II	Credits 3 3 3 1 3 16 Credits 5	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design	Credits 4 4 3 2-3 3 16-17
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7	Credits 3 3 3 1 3 16 Credits	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8	Credits 4 4 3 2-3 3 16-17 Credits
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II	Credits 3 3 3 1 3 16 Credits 5	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design ENG 202D – Effective Writing: Business Writing	Credits 4 4 3 2-3 3 16-17 Credits 4
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II HORT 138 – Ornamental Plant Materials HORT 410W – Issues in Landscape Contracting BLAW 243 – Legal Environment of Business or	Credits 3 3 3 1 3 16 Credits 5 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design ENG 202D – Effective Writing: Business Writing (GWS) HORT 468 – Landscape Estimating and Bidding B A 303-Marketing or	Credits 4 4 3 2-3 3 16-17 Credits 4 3
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II HORT 138 – Ornamental Plant Materials HORT 410W – Issues in Landscape Contracting BLAW 243 – Legal Environment of Business or BA 243 –Social, Legal, and Ethical Environment of Business	Credits 3 3 3 1 3 16 Credits 5 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design ENG 202D – Effective Writing: Business Writing (GWS) HORT 468 – Landscape Estimating and Bidding	Credits 4 4 3 2-3 3 16-17 Credits 4 3 2
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II HORT 138 – Ornamental Plant Materials HORT 410W – Issues in Landscape Contracting BLAW 243 – Legal Environment of Business or BA 243 –Social, Legal, and Ethical Environment of Business or BA 241 & BA 242 Legal Environment of Business and	Credits 3 3 3 1 3 16 Credits 5 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design ENG 202D – Effective Writing: Business Writing (GWS) HORT 468 – Landscape Estimating and Bidding B A 303-Marketing or	Credits 4 4 3 2-3 3 16-17 Credits 4 3 2
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II HORT 138 – Ornamental Plant Materials HORT 410W – Issues in Landscape Contracting BLAW 243 – Legal Environment of Business or BA 243 –Social, Legal, and Ethical Environment of Business	Credits 3 3 3 1 3 16 Credits 5 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design ENG 202D – Effective Writing: Business Writing (GWS) HORT 468 – Landscape Estimating and Bidding B A 303-Marketing or MKTG 220 – Introduction to Selling Techniques	Credits 4 3 2-3 3 16-17 Credits 4 3 2
Total Credits: Semester 5 CHEM 130 – Introductory Chemistry (GN) HORT 137 – Ornamental Plant Materials HORT 269 – Residential Landscape Design TURF 100 – Introduction to Turfgrass Management OR TURF 235 – The Turfgrass HORT 497 – Landscape Graphics Elective Total Credits: Semester 7 HORT 466 – Landscape Construction II HORT 138 – Ornamental Plant Materials HORT 410W – Issues in Landscape Contracting BLAW 243 – Legal Environment of Business or BA 243 –Social, Legal, and Ethical Environment of Business or BA 241 & BA 242 Legal Environment of Business and	Credits 3 3 3 1 3 16 Credits 5 3 3	Semester 6 HORT 464 – Landscape Construction I HORT 408 – Landscape Plant Establishment and Maintenance Humanities (GH)** Pest Management Selection (see note A below) PLANT 217 – Landscape Soil and Water Management Total Credits: Semester 8 HORT 368 – Planting Design ENG 202D – Effective Writing: Business Writing (GWS) HORT 468 – Landscape Estimating and Bidding B A 303-Marketing or	Credits 4 3 2-3 3 16-17 Credits 4 3 2

NOTES:

A (Pest Management Selection): Select 2-3 credits from Entomology 313 (2) Introduction to Entomology, 314 (1) Management of Insect Pests of Ornamentals, HORT/TURF 238 (3) Turf and Ornamental Weed Control or PPEM (2) 318 Diseases of Forest and Shade Trees

Bold type indicates courses requiring a quality grade of C or better

Italic type indicates courses that satisfy both Major and General Education requirements

Bold Italics indicates courses requiring a quality grade of C or better and that satisfy both Major and General Education requirements

** These requirements may be fulfilled by selecting GH, GS and GA courses with the appropriate US/IL designation. Students must take 6 credits of either Linked or Inter-Domain courses. These requirements should be fulfilled by selecting GH, GS and GA courses with the appropriate Linked or Inter-Domain designation.

Recommended Academic Plan for Landscape Contracting Major – Design/Build Option Commonwealth Campuses

Semester 1	Credits	Semester 2	Credits
Humanities (GH)**	3	ART 020 (GA)	3
Quantification (GQ)	3	MATH 026 – Plane Trigonometry (GQ)	3
AG BM 101 – Economic Principles of Agribusiness Decision	3	Social and Behavioral Science (GS)**	3
Making (GS), ECON 014 – Principles of Economics (GS), ECON 102			
- Microeconomics Analysis and Policy (GS), OR ECON 104 -			
Introductory Macroeconomic Analysis and Policy (GS)			
ENGL 015 – Rhetoric and Composition (GWS)	3	CAS 100 – Effective Speech (GWS)	3
		US Cultures (US) **	0-3
First-Year Seminar* (S)	1		
General Health and Wellness (GHW)	1.5		
Total Credits:	14.5	Total Credits:	12-15
Semester 3	Credits	Semester 4	Credits
BIOL 127 – Plant Biology (GN) OR BIOL 110 – Basic Concepts and Biodiversity (GN) OR	3-4	CHEM 130 – Introductory Chemistry (GN)	3
Humanities (GH)**	3	SPAN 001 –Elementary Spanish I OR SPAN 002 -	4
	5	Elementary Spanish II OR SPAN 105 – Spanish	7
		for Students in the field of Agricultural Sciences	
ACCTG 211 – Financial and Managerial Accounting for Decision	4	ENG 202D – Effective Writing: Business Writing	3
Making		(GWS)	C C
BLAW 243 – Legal Environment of Business or	3-4	Elective	3
BA 243 –Social, Legal, and Ethical Environment of Business or BA			
241 & BA 242 Legal Environment of Business and Social and			
Ethical Environment of Business			
Elective OR HORT 101 – Horticultural Sciences(GN)	3	General Health and Wellness (GHW)	1.5
		International Cultures (IL)**	0-3
Total Credits:	16-18	Total Credits:	14.5-17.5
Semester 5	Credits	Semester 6	Credits
Elective OR HORT 101 – Horticultural Sciences(GN)	3	HORT 464 – Landscape Construction I	4
HORT 137 – Ornamental Plant Materials	3	HORT 408 – Landscape Plant Establishment	4
		and Maintenance	
HORT 269 – Residential Landscape Design	3	HORT 220 - CAD Applications in Landscape	3
		Contracting	
HORT 120 – Computer Applications for Landscape Contracting	2	Pest Management Selection (see note A below)	2-3
HORT 497 – Landscape Graphics	1	PLANT 217 – Landscape Soil and Water Management	3
SOILS 101 – Introductory Soil Science (GN)	3		
Total Credits:	15	Total Credits:	16-17
Semester 7	Credits	Semester 8	Credits
HORT 466 – Landscape Construction II	5	HORT 368 – Planting Design	4
HORT 131 – Herbaceous Perennial and Annual Identification	3	HORT 468 – Landscape Estimating and Bidding	2
HORT 138 – Ornamental Plant Materials	3	B A 303 Marketing or	3
		MKTG 220 – Introduction to Selling Techniques	
HORT 410W – Issues in Landscape Contracting	3	LARCH 060 – History of Design on the Land (GA)	3
TURF 100 – Introduction to Turfgrass Management	3	BA 250 – Small Business Management or	3
or TURF 235 – The Turfgrass	5	HORT 455 – Retail Horticulture Business	5
		Management or	
		BA 304 – Management and Organization	
Total Credits:	17	Total Credits:	15
NOTEC:	±/		10

NOTES:

A (Pest Management Selection): Select 2-3 credits from Entomology 313 (2) Introduction to Entomology, 314 (1) Management of Insect Pests of Ornamentals, HORT/TURF 238 (3) Turf and Ornamental Weed Control or PPEM (2) 318 Diseases of Forest and Shade Trees

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Italic type indicates courses that satisfy both Major and General Education requirements

Bold Italics indicates courses requiring a quality grade of C or better and that satisfy both Major and General Education requirements

*For campuses that do not require a first-year seminar and offer an alternative first-year engagement plan, this first-year seminar requirement will be waived. A student must, however, still meet the minimum number of credits required for graduation from this major which may require the student to take an additional elective

** These requirements may be fulfilled by selecting GH, GS and GA courses with the appropriate US/IL designation. Students must take 6 credits of either Linked or Inter-Domain courses. These requirements should be fulfilled by selecting GH, GS and GA courses with the appropriate Linked or Inter-Domain designation

Recommended Academic Plan for Landscape Contracting Major – Management Option University Park

Semester 1	Credits	Semester 2	Credits
Humanities (GH)**	3	LARCH 060 – History of Design on the Land (GA)	3
AG 150 First year seminar (S)	2	MATH 026 – Plane Trigonometry (GQ)	3
ENGL 015 – Rhetoric and Composition (GWS)	3	CAS 100 – Effective Speech (GWS)	3
Quantification (GQ)	3	AG BM 101 – Economic Principles of Agribusiness	3
		Decision Making (GS), ECON 014 – Principles of	
		Economics (GS), ECON 102 – Microeconomics	
		Analysis and Policy (GS), OR ECON 104 –	
		Introductory Macroeconomic Analysis and Policy (GS)	
		US Cultures (US) **	0-3
HORT 101 – Horticultural Sciences(GN)	3	Humanities (GH)**	3
		numannies (GH)	5
Social and Behavioral Sciences (GS)**	3		
Total Credits:	17	Total Credits:	15-18
Semester 3	Credits	Semester 4	Credits
HORT 137 – Ornamental Plant Materials	3	BLAW 243 – Legal Environment of Business or	3-4
		BA 243 – Social, Legal, and Ethical Environment of	
		Business or BA 241 & BA 242 Legal Environment of	
		Business and Social and Ethical Environment of	
		Business	
BA 250 – Small Business Management or	3	B A 303 Marketing or	3
HORT 455 – Retail Horticulture Business		MKTG 220 – Introduction to Selling Techniques	
Management or			
BA 304 – Management and Organization			
BIOL 127 – Plant Biology (GN) OR BIOL 110 – Basic	3-4	SPAN 001 – Elementary Spanish I OR SPAN 002 -	4
Concepts and Biodiversity (GN)	0.	Elementary Spanish II OR SPAN 105 – Spanish for	
concepts and bloarversity (any		Students in the field of Agricultural Sciences	
HORT 120 - Computer Applications for Landscape	2	General Health and Wellness (GHW)	1.5
	Z	General fleath and Weilless (Griv)	1.5
Contracting SOILS 101 – Introductory Soil Science (GN)	3	ENT 212 Introduction to Entemplom	2
SOILS 101 – Introductory Soil Science (GN)	3	ENT 313 – Introduction to Entomology	
		ENT 314 – Management of Insect Pests of	1
		Ornamentals	
		PPEM 318 – Diseases of Forest and Shade Trees OR	2-3
		PPEM 300 – Horticultural Crop Diseases	
Total Credits:	14-15	Total Credits:	16.5-18.5
Semester 5	Credits	Semester 6	Credits
CHEM 130 – Introductory Chemistry (GN)	3	General Health and Wellness (GHW)	1.5
HORT 138 – Ornamental Plant Materials	3	HORT 408 – Landscape Plant Establishment and	4
		Maintenance	
HORT/TURF 238 – Turf and Ornamental Weed	3	ACCTG 211 — Financial and Managerial Accounting	4
Control		for Decision Making	
TURF 100 – Introduction to Turfgrass	3	ENG 202D – Effective Writing: Business Writing	3
Management OR TURF 235 – The Turfgrass	5	(GWS)	5
HORT 250 – Landscape Contracting Design/Build	3	PLANT 217 – Landscape Soil and Water Management	3
Principles	3		5
Total Credits:	1 Г	Total Cradita	15.5
	15	Total Credits:	
Semester 7	Credits	Semester 8	Credits
Art (GA)**	3	Soils 404-Urban Soils	3
HORT 131 – Herbaceous Perennial and Annual	3	HORT 468 – Landscape Estimating and Bidding	2
Identification			
HORT 410W – Issues in Landscape Contracting	3	ELECTIVES	7-8
International Cultures (IL)**	0-3		
	6		
Electives	0		
Electives	0		

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** These requirements may be fulfilled by selecting GH, GS and GA courses with the appropriate US/IL designation. Students must take 6 credits of either Linked or Inter-Domain courses. These requirements should be fulfilled by selecting GH, GS and GA courses with the appropriate Linked or Inter-Domain designation.

Recommended Academic Plan for Landscape Contracting Major – Management Option Commonwealth Campuses

Semester 3 Credits Semester 4 Credits Art (GA)** 3 <i>ENG 202D</i> – Effective Writing: Business Writing 3 BLAW 243 – Legal Environment of Business or BA 241 & BA 242 Legal Environment of Business on BA 241 & BA 242 Legal Environment of Business and Social and Ethical Environment of Business and Social and Ethical Environment of Business or BA 241 & BA 242 Legal Environment of Business and Social and Ethical Environment of Business Social and Behavioral Sciences (GS)** 3 General Health and Wellness (GHW) 1.5 ACCTG 211 – Financial and Managerial Accounting for Decision Making 4 SPAN 001 – Elementary Spanish 10 R SPAN 002 – 4 International Cultures** 0-3 Elementary Spanish 10 r SPAN 105 Spanish for students in the field of Agricultural Sciences (GN) 3 Elective 3 <i>AG BM 101</i> – Economic Principles of Economic (SD), <i>ECON 104</i> – Introductory 3 Elective 3 Macroeconomic Analysis and Policy (GS) Total Credits: 17.5-18.5 Total Credits: 13-10 MORT 120 – Computer Applications for Landscape C HORT 408 – Landscape Plant Establishment and 4 Ontracting Maintenance 3 <i>LACK 060</i> – History of Design on the Land (GA) 3 HORT 120 – Computer App	Semester 1	Credits	Semester 2	Credits
EVRC 015 - Rhetoric and Composition (GWS) 3 CAS 100 - Effective Speech (GWS) 3 BIOL 127 - Plant Biology (GN) OR BIOL 110 - Basic 3-4 Humanities (GH)** 0-3 Quantification (GQ) 3 Elective 0-3 General Health and Wellness (GHW) 1.5 Total Credits: 15-11 General Health and Wellness (GHW) 1.5 Total Credits: 15-11 General Health and Wellness (GHW) 3 ENG 202D - Effective Writing: Business Writing 3 BLAW 243 - Legal Environment of Business or 3-4 Social and Behavioral Sciences (GS)** 3 Business or BA 241 & 8A 242 (gal Equip Environment of Business Social and Behavioral Sciences (GS)** 3 General Health and Wellness (GHW) 1.5 ACCTG 211 – Financial and Managerial Accounting for Decision Making 4 SPAN 001 – Elementary Spanish I OR SPAN 002 – 4 International Cultures** 0-3 Elementary Spanish I OR SPAN 105 Spanishor Students 3 Elective 3 AG BM 101 – Economic Principles of Agribusiness 3 Elective 3 AG BM 101 – Economic Principles of Nucreeconomics Analysis and Policy (GS). Total Credits: 17.5-18.5 Total Credits: 13.11	Humanities (GH)	3	CHEM 130 – Introductory Chemistry (GN)	3
BIOL 127 - Plant Biology (GN) OR BIOL 110 - Basic 3-4 Humanities (GH)** 3 Concepts and Biodiversity (GN) OR 0.3 Elective 0-3 General Health and Wellness (GHW) 1.5 Total Credits: 15-15.5 Semester 3 Credits Semester 4 Credit Art (GA)** 3 Elective 0-3 BLAW 243 - Legal Environment of Business or Ba 243 - Social, Legal, and Ethical Environment of Business and Social and Ethical Environment of Business and Social and Ethical Environment of Business and Social and Ethical Environment of Business or BA 214. 8A 242 Legal Environment of Business and Social and Ethical Environment of Business and Bolicy (GS). 0-3 Decision Making (SS), ECON UA14 - Principles of Economics (SS), ECON UA2 - Nicroeconomics Analysis and Policy (GS).	First year seminar* (S)	1	Math 026 – Trigonometry (GQ)	3
concepts and Biodiversity (GN) OR US Cultures (US)** 0-3 Quantification (GQ) 3 Elective 0-3 General Health and Wellness (GHW) 1.5 Total Credits: 15.1 Total Credits 14.5-15.5 Total Credits: Credits BLAW 243 – Legal Environment of Business or Business or BA 243 - Social, Legal, and Ethical Environment of Business and Social and Penkings 0-3 General Health and Wellness (GHW) 1.5 ACCTG 211 – Financial and Managerial Accounting for Decision Making 0-3 SPAN 001 – Elementary Spanish I or SPAN 105 Spanish for students in the field of Agricultural Sciences (SN) 3 Elective 3 AG BM 101 – Economic Principles of Agribusiness Decision Making (SS), ECOM 104 – Introductory Foreconomics Analysis and Policy (SS), OR ECOM 144 – Principles of Economics (SS), ECOM 102 – Microeconomics Analysis and Policy (SS), OR ECOM 144 – Introductory Solitications for Landscape 2 HORT 103 – Introduction to Selling Techniques 3 MORT 120 – Computer Applications for Landscape 2 HORT 104 – Enadscape Plant Establishment and Maintenance 4 Maintenance 3 MORT 120 – Computer Applications for Landscape 2	ENGL 015 – Rhetoric and Composition (GWS)	3	CAS 100 – Effective Speech (GWS)	3
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NOTES:

Bold type indicates courses requiring a quality grade of C or better

Italic type indicates courses that satisfy both Major and General Education requirements

Bold Italics indicates courses requiring a quality grade of C or better and that satisfy both Major and General Education requirements

*For campuses that do not require a first-year seminar and offer an alternative first-year engagement plan, this first-year seminar requirement will be waived. A student must, however, still meet the minimum number of credits required for graduation from this major which may require the student to take an additional elective

** These requirements may be fulfilled by selecting GH, GS and GA courses with the appropriate US/IL designation.

Students must take 6 credits of either Linked or Inter-Domain courses. These requirements should be fulfilled by selecting GH, GS and GA courses with the appropriate Linked or Inter-Domain designation

Name: _	
PSU ID:	
Advisor:	

College of Agricultural Sciences

LANDSCAPE CONTRACTING-Design/Build Option

120 Credits Required

Minor: _____ Program Year: _____ Expected Graduation Date: _____

REQUIREMENTS FOR THE MAJOR				GENERAL EDUCAT	ION						
Course	Cr.	Grade	Sem.	Course	Cr.	Grade	Sem.	Course	Cr.	Grade	Sem.
Major Prescribed Courses (53)				Communications (GWS) (9 credits)				First Year Seminar (1-3 credits)			
ACCTG 211	(4)			ENGL 015 or 30	(3)				(1-3)		
BA 250, BA 304 or HORT 455	(3)			ENGL 202D	(3)						
BLAW 243 BA 243 or BA 241 & BA 242,	(3-4)			CAS 100	(3)			US and International Cultures			
EDSGN 010	(1)							(satisfied by GA/US, GA/IL, GH/US, GH/IL)			
HORT 120*	(2)			Quantification (GQ) (6 credits)				(US)	(3)		
HORT 131*	(3)			MATH 026	(3)			(IL)	(3)		
HORT137*	(3)				(3-4)						
HORT 138*	(3)							Writing Intensive (3 credits) W			
HORT 220*	(3)			Natural Sciences (GN) (9 credits)				HORT 410W	(3)		
HORT 269*	(3)			HORT 101*	(3)						
HORT 368*	(4)			SOILS 101	(3)						
HORT 408*	(4)			CHEM 130	(3)						
HORT 410W	(3)										
HORT 464*	(4)			Arts (GA) (6 credits)							
HORT 466*	(5)			LARCH 060	(3)						
HORT 468*	(2)			ART 020	(3)						
PLANT 217	(3)							Electives			
				Humanities (GH) (6 credits)						·	
Additional Courses (13-14 credits)											
BIOL 127 or 110	(3-4)			Social and Behavioral Science (GS) (6 credi	ts)					
B A 303 or MKTG 220	(3)			ECON 14/102/104 or AG BM 101	(3)						
SPAN 001, 002, or 105	(4)				(3)						
TURF 100 or 235	(3)										
Additional Course (2-3 credits)				General Health and Wellness (GHW)) (3 cre	dits)					
ENT 313 (2) 314 (1) HORT/TURF 238 (3)	or PPI	EM 318 (2	2)								
*C Required											
Updated 7/2019											
Minimum 2.0 required for graduation											

Name: ______

PSU ID:	
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Advisor:

College of Agricultural Sciences
LANDSCAPE CONTRACTING-Management Option

Program Year: _____

Expected Graduation Date: ______

120 Credits Required

REQUIREMENTS FOR THE MAJOR				GENERAL EDUCAT	ION						
Course Major Prescribed Courses (47)	Cr.	Grade	Sem.	Course Communications (GWS) (9 credits)	Cr.	Grade	Sem.	Course First Year Seminar (1-3 credits)	Cr.	Grade	Sem.
ACCTG 211	(4)			ENGL 015 or 30	(3)			· · ·	(1-3)		
BA 250, BA 304 or HORT 455	(3)			ENGL 202D					. , -		
	(3-4)			CAS 100				US and International Cultures			
HORT 120*	(2)							(satisfied by GA/US, GA/IL, GH/US, GH/IL)			
HORT 131*	(3)			Quantification (GQ) (6 credits)				(US)	(3)		
HORT137*	(3)			MATH 026	(3)			(IL)	(3)		
HORT 138*					(3-4)						
HORT/TURF 238*	(3)							Writing Intensive (3 credits) W			
HORT 250*	(3)			Natural Sciences (GN) (9 credits)				HORT 410W	(3)		
HORT 408*	(4)			HORT 101*	(3)						
HORT 410W	(3)			SOILS 101	(3)						
HORT 468	(2)			CHEM 130	(3)						
ENT 313	(2)										
ENT 314	(1)			Arts (GA) (6 credits)							
PLANT 217	(3)			LARCH 060	(3)			Electives			
PPEM 318	(2)				(3)						
SOILS 404	(3)										
				Humanities (GH) (6 credits)							
Additional Courses (13-14 credits)											
BIOL 127 or 110	(3-4)			Social and Behavioral Science (GS) (6	5 credit	:s)					
B A 303 or MKTG 220	(3)			ECON 14/102/104 or AG BM 101	(3)						
SPAN 001, 002, or 105	(4)										
TURF 100 or 235	(3)										
				General Health and Wellness (GHW)	(3 cre	aits) 					
*C Required											

Updated 7/2019 Minimum 2.0 required for graduation

RELATED STUDENT ACTIVITIES:

As a student in Landscape Contracting you have the opportunity to become involved with a wide range of activities that enable you to become more exposed to the profession, and at the same time, meet and do things with other students in your major.

HORTICULTURE CLUB:

The Penn State Horticulture (HORT) club is made up mostly of students who are working towards a career in the plant sciences, specifically in horticulture and landscaping. The club meets regularly during the fall and spring semester and offers a variety of activities for members. These activities can include trips to botanical gardens, skiing, and tubing in winter, attending PSU sporting events and other activities that club members may propose.

HORTICULTURE SHOW:

The Horticulture (HORT) Show has become a Penn State tradition, and each fall semester the local community looks forward to attending it. It features quality plant materials and educational displays. The show is open during a Penn State football home game weekend. The HORT Show is the HORT Club's main fundraiser for the fall semester. Landscape Contracting students work together to create a design for the show, and members of the HORT club construct the design. A great deal of work goes into preparation. Show accents, such as massive indoor water features, brick paver walkways, and hanging plant arbors are constructed by the students. Proceeds from the show are mainly used to fund the following year's show, and the remaining profits are invested in our club members.

STUDY ABROAD:

Both short-term and semester long study abroad opportunities are available to Landscape Contracting students. Semester long options are offered each semester and allow students to study at colleges and universities world-wide. Short-term (7 to 12 day) study abroad trips are offered on average every two years. These have typically been centered on landscapes in Europe. The short-term trips are attractive because students are often traveling with others in their major.

NATIONAL COLLEGIATE LANDSCAPE COMPETITION:

Each year the Landscape Contracting Program competes in the National Collegiate Landscape Competition (formerly ALCA or PLANET). This event, which is hosted at a different college or university each year, brings together 800+/- students from 60+/- college and universities to compete in over twenty-five different events. Students from a variety of majors in the College of Ag spend several months training for these events. The team travels as a group to the competition, often stopping along the way to view different sites of interest. The competition also includes training and educational workshops, a career fair, networking opportunities, and lots of fun stuff for students.

FALL FIELD TRIP:

Landscape Contracting students are encouraged to take advantage of any opportunity to visit with landscape companies, see urban, suburban, commercial and residential landscapes, get to know alumni of the LSCPE program and to learn more about their chosen profession. To reinforce this, the LSCPE program offers students to participate in a two day trip each fall to various locations in the northeast. In the past these have included Washington DC, New York City, Baltimore, Pittsburgh, and Philadelphia.