

**COMMUNICATION/LIBRARY—13 CREDITS**

3	Engl	1500	Critical Thinking and Communication	_____
3	Engl	2500	Written, Oral, Visual and Electronic Composition	_____
3	Engl	3020	Business Communication <b>or</b>	_____
3	Engl	3140	Technical Communication	_____
1	Lib	1600	Information Literacy	_____
3	Sp Cm	2120	Fundamentals of Public Speaking <b>or</b>	_____
3	AgEds	3110	Presentation and Sales Strategies for Agricultural Audiences <b>or</b>	_____
3	ComSt	2140	Professional Communication	_____
Communications Proficiency (with a grade of C or better)				
6 credits of English composition (see approved courses above)				
3 credits of speech fundamentals (see approved courses above)				

**MATHEMATICAL SCIENCES—6 CREDITS**

COMPLETE **ONE** COURSE FROM THE FOLLOWING GROUP:

3	Math	1400	College Algebra <b>or</b>	_____
3	Math	1500	Discrete Mathematics for Business and Social Sciences <b>or</b>	_____
4	Math	1650	Calculus I	_____

**AND** COMPLETE **ONE** COURSE FROM THE FOLLOWING GROUP:

4	Stat	1010	Principles of Statistics <b>or</b>	_____
3	Stat	1040	Introduction to Statistics <b>or</b>	_____
3	Stat	2260	Introduction to Business Statistics I <b>or</b>	_____
4	Stat	3010	Intermediate Statistical Concepts and Methods	_____

**PHYSICAL SCIENCES—11 CREDITS**

4	Chem	1630	College Chemistry <b>and</b>	_____
1	Chem	1630L	Laboratory in College Chemistry <b>or</b>	_____
4	Chem	1770	General Chemistry I <b>and</b>	_____
1	Chem	1770L	Laboratory in General Chemistry I	_____

**AND** COMPLETE **ONE** COURSE FROM THE FOLLOWING GROUP:

3	Agron	2590	Organic Compounds in Plants and Soils	_____
3	Chem	1780	General Chemistry II <b>and</b>	_____
1	Chem	1780L	Laboratory in General Chemistry II	_____
3	Phys	1010	Physics for the Nonscientist	_____
4	Phys	1150	Physics for the Life Sciences	_____
5	Phys	1310	General Physics	_____

**AND** COMPLETE **ONE** COURSE FROM THE FOLLOWING GROUP:

3	BBMB	2210	Structure and Reactions in Biochemical Processes <b>or</b>	_____
3	Chem	2310	Elementary Organic Chemistry <b>and</b>	_____
1	Chem	2310L	Laboratory in Elementary Organic Chemistry <b>or</b>	_____
3	Chem	3310	Organic Chemistry I <b>and</b>	_____
1	Chem	3310L	Laboratory in Organic Chemistry I	_____

A student must take either Chem 163/163L or Chem 177/177L.  
Credit for both BBMB 221 and Chem 231 may not be applied toward graduation.

**GROW YOUR OWN ADVENTURE.**

**LIFE SCIENCES - 6 CREDITS**

- 3 Biol 2110 Principles of Biology I \_\_\_\_\_
- 3 Approved Life Sciences Course \_\_\_\_\_

**BIOLOGICAL SCIENCES—18 CREDITS**

- 3 Biol 2110 Principles of Biology I **and** \_\_\_\_\_
- 1 Biol 2110L Principles of Biology Laboratory I \_\_\_\_\_

**AND COMPLETE FOURTEEN OR MORE CREDITS FROM THE FOLLOWING GROUP:**

- 1 Agron 2170 Weed Identification \_\_\_\_\_
- 3 Agron 2820 Soil Conservation and Land Use \_\_\_\_\_
- 3 Agron 3160 Crop Structure—Function Relationships \_\_\_\_\_
- 3 Agron 3170 Principles of Weed Science \_\_\_\_\_
- 3 Agron 3540 Soils and Plant Growth \_\_\_\_\_
- 1 Agron 3540L Soil and Plant Growth Laboratory \_\_\_\_\_
- 3 Biol 2120 Principles of Biology II \_\_\_\_\_
- 1 Biol 2120L Principles of Biology II Laboratory \_\_\_\_\_
- 4 Biol 3120 Ecology \_\_\_\_\_
- 3 Biol 3130 Principles of Genetics **and** \_\_\_\_\_
- 1 Biol 3130L Genetics Laboratory **or** \_\_\_\_\_
- 3 Gen 3200 Genetics, Agriculture and Biotechnology \_\_\_\_\_
- 3 Biol 3140 Principles of Molecular Cell Biology \_\_\_\_\_
- 3 Biol 3550 Plants and People \_\_\_\_\_
- 3 Biol 3570 Biology of Plants \_\_\_\_\_
- 4 Biol 3660 Plant Systematics \_\_\_\_\_
- 4 Biol 4540 Plant Anatomy \_\_\_\_\_
- 3 Biol 4700 Plant Ecology \_\_\_\_\_
- 1 Ent 2010 Introduction to Insects \_\_\_\_\_
- 2 Ent 2110 Insects and Society \_\_\_\_\_
- 3 Ent 3700 Insect Biology \_\_\_\_\_
- 3 Ent 3750 Plant Protection Using Natural Enemies \_\_\_\_\_
- 3 Ent 3760 Fundamentals of Entomology and Pest Management \_\_\_\_\_
- 3 For 4160 Forest Insects and Diseases \_\_\_\_\_
- 1 For 4160L Forest Insects and Diseases Lab \_\_\_\_\_
- 3 PI P 4080 Principles of Plant Pathology \_\_\_\_\_

**HUMANITIES, ETHICS, AND SOCIAL SCIENCE—9 CREDITS**

- 3 Humanities (from an approved list) \_\_\_\_\_
- 3 Ethics (from an approved list) \_\_\_\_\_
- 3 Social Science (from an approved list) \_\_\_\_\_

**INTERNATIONAL PERSPECTIVES AND US CULTURES AND COMMUNITIES- 6 CREDITS**

- 3 International Perspectives (from an approved list) \_\_\_\_\_
- 3 U. S. Cultures and Communities (from an approved list) \_\_\_\_\_

**SOIL SCIENCES—3 CREDITS**

- 3 Agron 1820 Introduction to Soil Science \_\_\_\_\_

**HORTICULTURISTS DON'T GROW ON TREES.  
THAT'S WHERE WE COME IN.**

**HORTICULTURAL SCIENCES—30 CREDITS**

1	Hort	1100	Professional and Educational Development in Horticulture	_____
3	Hort	2210	Principles of Horticulture Science	_____
3	Hort	3210	Horticulture Physiology	_____
<b>AND COMPLETE TWENTY-THREE OR MORE CREDITS FROM THE FOLLOWING GROUP:</b>				
2	Hort	1310	Floral Design	_____
2	Hort	1320	Wedding and Event Floral Design	_____
2	Hort	2330	House Plants and Interiorscaping	_____
3	Hort	2400	Trees, Shrubs, and Woody Vines for Landscaping	_____
3	Hort	2760	Understanding Grape and Wine Science	_____
2	Hort	2810	Landscape Graphics	_____
2	Hort	2830	Pesticide Application Certification	_____
1	Hort	2910A	Horticulture Professional Development - Turf	_____
1	Hort	2910B	Horticulture Professional Development - Landscape	_____
1	Hort	2910C	Horticulture Professional Development - Cross Commodity	_____
3	Hort	3220	Plant Propagation	_____
3	Hort	3300	Herbaceous Ornamental Plants	_____
2	Hort	3310	Hydroponic Food Crop Production (Fall even years)	_____
4	Hort	3320	Greenhouse and Nursery Operations and Management	_____
3	Hort	3380	Seed Science and Technology	_____
2	Hort	3410	Woody Plant Cultivars: Shade Trees, Ornamental Trees, and Woody Shrubs	_____
3	Hort	3420	Landscape Plant Installation, Establishment, and Management	_____
3	Hort	3510	Turfgrass Establishment and Management	_____
1	Hort	3510L	Turfgrass Establishment and Management Laboratory	_____
3	Hort	3540	Soils and Plant Growth	_____
1	Hort	3540L	Soils and Plant Growth Laboratory	_____
3	Hort	3760	Fundamentals of Field Production of Horticultural Food Crops	_____
2	Hort	3800	Principles of Garden Composition	_____
2	Hort	3810	Beginning Garden Composition Studio	_____
1-2	Hort	3910	Horticultural Management Experience	_____
R	Hort	3980	Cooperative Education	_____
3	Hort	4210	Introduction to Plant Breeding	_____
3	Hort	4240	Sustainable and Environmental Horticulture Systems (alt.Spring odd)	_____
3	Hort	4340	Floriculture Crop Production (alternate Fall odd years)	_____
3	Hort	4350	Landscape Plant Production (alternate Spring odd years)	_____
3	Hort	4440	Landscape Construction Management	_____
2	Hort	4510	Professional Turfgrass Management	_____
3	Hort	4520	Integrated Management of Diseases and Insect Pests of Turfgrasses	_____
3	Hort	4530	Sports Turf Management	_____
3	Hort	4540	Turf and Landscape Irrigation	_____
3	Hort	4610	Fruit Crop Production and Management (alternate Spring odd years)	_____
2	Hort	4710	Vegetable Production and Management (alternate Spring even years)	_____
1	Hort	471L	Vegetable Production and Management Laboratory	_____
3	Hort	4750	Urban Forestry	_____
3	Hort	4760	Horticultural Postharvest Technology (alternate Fall odd years)	_____
2	Hort	4810	Advanced Garden Composition	_____
3	Hort	4840	Organic Agricultural Theory and Practice (alternate Spring odd years)	_____
1-4	Hort	4900	Independent Study (No more than 4 credits toward graduation)	_____
1-2	Hort	4910	Seed Science Internship Experience	_____
Arr.	Hort	4930	Workshop in Horticulture	_____
1	Hort	4940B	Service Learning - Domestic - St. John USVI	_____
R	Hort	4950	Horticulture Travel Course Preparation	_____
3	Hort	4960	Horticulture Travel Course	_____
3	Hort	5110	Integrated Management of Tropical Crops	_____
2	Hort	5510	Growth and Development of Perennial Grasses	_____

Transfer students may transfer up to 10 credits of 200— and 300— level courses in the horticulture area.

**SPECIALIZED OPTIONS**

A minor in an Approved Area of Study may be substituted for the specialization option with permission of student’s advisor.  
A student may add business courses to the option with permission of the adviser.

**GREENHOUSE PLANT PRODUCTION—12 CREDITS**

Required Courses: Hort 2400, 3220, 3300, 3310, 3320, 4340, **and** 4350  
Recommended Courses: Hort 3910, 4240 and 4760

3	Acct	2840	Financial Accounting (Required for Option)	_____
<b>AND COMPLETE NINE OR MORE CREDITS FROM THE FOLLOWING GROUP:</b>				
3	Acct	2150	Legal Environment of Business	_____
3	Acct	2850	Managerial Accounting	_____
3	Acct	3160	Business Law	_____
3	Agron	2060	Introduction to Weather and Climate	_____
4	ComS	1030	Computer Applications	_____
3	Econ	1010	Principles of Microeconomics	_____
3	Econ	1020	Principles of Macroeconomics	_____
3	Econ	2300	Farm Business Management	_____
3	Econ	2340	Small Business Management (Prereq Econ 1010)	_____
3	Econ	3340	Entrepreneurship in Agriculture (Prereq Econ 1010)	_____
4	EnSci	4610L	Introduction to GIS	_____
3	Mgmt	3700	Management of Organizations (Prereq Econ 1010)	_____
3	Mgmt	3710	Organizational Behavior (Prereq Mgmt 3700)	_____
3	Mkt	3400	Principles of Marketing (Prereq Econ 1010)	_____
3	Mkt	4420	Sales Management (Prereq Mkt 3400)	_____
3	Mkt	4460	Retailing (Prereq Mkt 3400)	_____
3	Mkt	4470	Consumer Behavior (Prereq Mkt 3400)	_____
3	TSM	2700	Principles of Injury Prevention and Safety	_____

**HORTICULTURE FOOD CROP PRODUCTION AND MANAGEMENT—12 CREDITS**

Required Courses: Hort 2760, 3760, 4610, 4710, 4710L, 4760  
Recommended Courses: Hort 3220, 3310, 3320, 3380, 3910, **and** 4840

3	Acct	2840	Financial Accounting (Required for Option)	_____
<b>AND COMPLETE NINE OR MORE CREDITS FROM THE FOLLOWING GROUP:</b>				
3	Acct	2150	Legal Environment of Business	_____
3	Acct	2850	Managerial Accounting	_____
3	Acct	3160	Business Law	_____
4	ComS	1030	Computer Applications	_____
3	Econ	1010	Principles of Microeconomics	_____
3	Econ	1020	Principles of Macroeconomics	_____
3	Econ	2300	Farm Business Management	_____
3	Econ	2340	Small Business Management (Prereq Econ 1010)	_____
3	Econ	3340	Entrepreneurship in Agriculture (Prereq Econ 1010)	_____
3	Env S	2930	Environmental Planning	_____
3	Env S	3240	Energy and the Environment	_____
3	Env S	3820	Environmental Sociology	_____
3	Env S	4910	Environmental Law and Planning	_____

**HORTICULTURAL FOOD CROP PRODUCTION AND MANAGEMENT CONTINUED...**

2	FSHN	4030	Food Laws and Regulations	_____
3	FSHN	4050	Food Quality Assurance	_____
3	FSHN	4710	Food Processing	_____
3	FSHN	4720	Food Processing Laboratory	_____
3	Mgmt	3100	Entrepreneurship and Innovation (Prereq Econ 1010)	_____
3	Mgmt	3130	Feasibility Analysis and Business Planning (Prereq Mgmt 3100)	_____
3	Mgmt	3700	Management of Organizations (Prereq Econ 1010)	_____
3	Mgmt	3710	Organizational Behavior (Prereq Mgmt 3700)	_____
3	Mkt	3400	Principles of Marketing (Prereq Econ 1010)	_____
3	Mkt	4420	Sales Management (Prereq Mkt 3400)	_____
3	Mkt	4460	Retailing (Prereq Mkt 3400)	_____
3	Mkt	4470	Consumer Behavior (Prereq Mkt 3400)	_____
3	TSM	2700	Principles of Injury Prevention and Safety	_____
3	TSM	3240	Soil and Water Conservation Management	_____

**LANDSCAPE DESIGN, INSTALLATION, AND MANAGEMENT—12 CREDITS**

Required Courses: Hort 2400, 2810, 3300, 3410, 3420, 3510, 3800, 3810, 4440, **and** 4810  
 Recommended Courses: Hort 3220, 3320 and 3910

3	Acct	2840	Financial Accounting (Required for Option)	_____
<b>AND COMPLETE NINE OR MORE CREDITS FROM THE FOLLOWING GROUP:</b>				
3	Acct	2150	Legal Environment of Business	_____
3	Acct	2850	Managerial Accounting	_____
3	Acct	3160	Business Law	_____
4	ComS	1030	Computer Applications	_____
3	Econ	2340	Small Business Management (Prereq Econ 1010)	_____
3	Econ	3340	Entrepreneurship in Agriculture (Prereq Econ 1010)	_____
3	Mgmt	3100	Entrepreneurship and Innovation (Prereq Econ 1010)	_____
3	Mgmt	3130	Feasibility Analysis and Business Planning (Prereq Mgmt 3100)	_____
3	Mgmt	3700	Management of Organizations (Prereq Econ 1010)	_____
3	Mgmt	3710	Organizational Behavior (Prereq Mgmt 3700)	_____
3	Mkt	3400	Principles of Marketing (Prereq Econ 1010)	_____
3	Mkt	4420	Sales Management (Prereq Mkt 3400)	_____
3	Mkt	4470	Consumer Behavior (Prereq Mkt 3400)	_____
3	TSM	3240	Soil and Water Conservation Management	_____

**PUBLIC HORTICULTURE—12 Credits**

Required Courses: Hort 2400, 3300 and 3220  
 Recommended Courses: Hort 2810, 3320, 3410, 3420, 3510, 3510L, 3760, 3800, 3810 **and** 3910

3	Acct	2840	Financial Accounting (Required for Option)	_____
<b>AND COMPLETE NINE OR MORE CREDITS FROM THE FOLLOWING GROUP:</b>				
3	Acct	2150	Legal Environment of Business	_____
3	Acct	2850	Managerial Accounting	_____
3	Acct	3160	Business Law	_____
2	AgEdS	3100	Foundations of Agricultural Education Programs	_____
3	AgEdS	4010	Planning Agriculture and Life Sciences Education Programs	_____
2	AgEdS	4140	Developing Agricultural Education Programs in Non-formal Settings	_____
3	ComSt	1020	Introduction to Interpersonal Communication	_____
3	ComSt	2140	Professional Communication	_____
3	ComSt	3170	Small Group Communication	_____

**PUBLIC HORTICULTURE CONTINUED...**

3	Econ	1010	Principles of Microeconomics	_____
3	Econ	2340	Small Business Management (Prereq Econ 1010)	_____
3	Econ	3340	Entrepreneurship in Agriculture (Prereq Econ 1010)	_____
3	Engl	2200	Descriptive English Grammar	_____
3	Engl	3030	Free Lance Writing for Popular Magazines	_____
3	Engl	3050	Creative Writing—Nonfiction	_____
3	Engl	3090	Proposal and Report Writing	_____
3	Engl	3130	Rhetorical Website Design	_____
3	Engl	4150	Business and Technical Editing	_____
3	Engl	4160	Visual Aspects of Business and Technical Communication	_____
3	EnSci	4460	Integrating GPS and GIS for Natural Resource Management	_____
4	EnSci	4610L	Introduction GIS	_____
3	Fin	3010	Principles of Finance	_____
3	JLMC	2010	Reporting and Writing for the Mass Media	_____
3	JLMC	3100	Fundamentals of Photojournalism	_____
3	Mgmt	3700	Management of Organizations (Prereq Econ 1010)	_____
3	Mgmt	3710	Organizational Behavior (Prereq Econ 1010)	_____
3	Mgmt	4710	Personnel and Human Resource Management	_____
3	NREM	3800	Field Ecology Research and Teaching	_____
3	PR	2200	Principles of Public Relations	_____
3	SpCm	3120	Business and Professional Speaking	_____
3	SpCm	3130	Communication in Classrooms and Workshops	_____

**HORTICULTURE RESEARCH—12 credits**

Required Courses: Biological Sciences: ;Biol 2110, 2110L, 2120, 2120L, 3130, 3130L; AgEds 3120 (at least 3 credits); Chemistry 1770,1770L,1780,1780L, 3310,3310L, 3320,3320L; Hort 3220; Math 1650 and 1660; **and** Physics 1310/1310L and 1320/1320L  
Recommended Courses: Hort 2400, 3300, 3310, 3320, 3380, 3420, 3910 and 4210; Stat 3010

3	BBMB	3010	Survey of Biochemistry OR	_____
3	BBMB	3160	Principles of Biochemistry OR	_____
3	BBMB	4040	Biochemistry I	_____

COMPLETE **FIVE** OR MORE CREDITS FROM THE FOLLOWING GROUP:

3	BBMB	4050	Biochemistry II	_____
3	BBMB	4110	Techniques in Biochemical Research	_____
3	Biol	3140	Principles of Molecular Cell Biology	_____
3	Biol	3150	Biological Evolution	_____
2	Chem	2110	Quantitative and Environmental Analysis	_____
2	Chem	2110L	Quantitative and Environmental Analysis Laboratory	_____
4	Chem	3160	Instrumental Methods of Chemical Analysis	_____
1	Chem	3160L	Instrumental Analysis Laboratory	_____
2	Chem	3210L	Laboratory in Physical Chemistry	_____
3	Chem	3220L	Laboratory in Physical Chemistry	_____
3	Chem	3240	Introductory Quantum Mechanics	_____
3	Gen	4090	Molecular Genetics	_____
3	Gen	4100	Analytical Genetics	_____

**WHERE BULBS GO OFF AND GRADUATE.**

**TURFGRASS MANAGEMENT—12 credits**

Required Courses: Hort 2400, 3510, 3510L, 4510, 4520, 4530, 4540, **and** 5510  
 Recommended Courses: Hort 3300, 3220, 3910, and 4240  
 Suggested Biological Courses: Agronomy 2170, 3170, 3540/3540L, Biology 2120, Entomology 3760, Plant Pathology 4080

3	Acct	2840	Financial Accounting (Required for Option)	_____
<b>AND COMPLETE NINE OR MORE CREDITS FROM THE FOLLOWING GROUP:</b>				
3	Acct	2850	Managerial Accounting	_____
3	Acct	3160	Business Law	_____
3	Agron	2060	Introduction to Weather and Climate	_____
3	Agron	3600	Environmental Soil Science	_____
3	Agron	4590	Environmental Soil and Water Chemistry	_____
4	Com S	1030	Computer Applications	_____
3	Econ	2340	Small Business Management (Prereq Econ 1010)	_____
3	Econ	3340	Entrepreneurship in Agriculture (Prereq Econ 1010)	_____
4	EnSci	4610L	Introduction to GIS	_____
2	Env S	2010	Introduction to Environmental Issues	_____
3	Env S	3240	Energy and the Environment	_____
3	Hsp M	1010	Introduction to the Hospitality Industry	_____
2	Hsp M	2890	Contemporary Club Management	_____
3	Mgmt	3100	Entrepreneurship and Innovation (Prereq Econ 1010)	_____
3	Mgmt	3130	Feasibility Analysis and Business Planning (Prereq Mgmt 3100)	_____
3	Mgmt	3700	Management of Organizations (Prereq Econ 1010)	_____
3	Mgmt	3710	Organizational Behavior (Prereq Mgmt 3700)	_____
3	Mkt	3400	Principles of Marketing (Prereq Econ 1010)	_____
3	Mkt	4420	Sales Management (Prereq Mkt 3400)	_____
3	TSM	2700	Principles of Injury Prevention and Safety	_____
3	TSM	3240	Soil and Water Conservation Management	_____

**FREE ELECTIVES—14-18 credits**

All specialization options must complete 14-18 free elective credits.

**123 Total Credits**

**LAYING THE GROUNDWORK  
FOR FUTURE CHAMPIONS.**