



May 21, 2015

Dr. Steve Neal
Assistant Dean for Academic Affairs
100E Agricultural Administration Building
2120 Fyffe Rd
Columbus, OH 43210

Dear Dr. Neal,

Enclosed please find the proposed curriculum plans for the Greenhouse and Nursery Management (GHNRMGT-AA) major with Greenhouse (GRN), Nursery (NRY) and Greenhouse Engineering Technology (GET) specializations, submitted for consideration by the FAES Academic Affairs Committee. The modifications of the current curriculum plan respond to the Ohio Board of Regents revised requirements for this degree program as indicated in the revised OBR Guidelines and Procedures for Academic Program Review document, and are in alignment with the approved curriculum plan template for the Ohio State ATI Associate of Applied Science degree program. These changes address the reduction in credit hours and alignment with the general education curriculum for this degree program. In addition, the proposed curriculum plan provides students with a course of study that will prepare them to be successful in their careers in the greenhouse and nursery industries.

Two of the proposed Greenhouse and Nursery Management Specialization curriculum plans (Greenhouse Specialization and Nursery Specialization) were developed by Dr. Robert W. McMahon, Coordinator of the Greenhouse and Nursery Management program. The courses that are included in the current and proposed curriculum plans were selected in consultation with other faculty involved in the program as well as members of the Greenhouse Specialization Advisory Committee. The proposed separate curriculum plans and course sequences for the Greenhouse and Nursery Specialization programs were approved by Division of Horticultural Technologies faculty and the Ohio State ATI Academic Affairs Committee.

The changes in both specializations reduce the number of credits in the Non-Technical Studies' General Education category Arts and Humanities by 3, reduce the number of credits in the Technical category by 3, and increase the number of credits in the Applied General Education category by 6. The number of credits for both the Greenhouse and Nursery Specializations remain unchanged at 63.

The following are the specific changes that apply to both the Greenhouse and Nursery Specializations:

1. Remove the Humanities elective (3)
2. Remove the BIOTECH/HORTTEC Elective (3)
3. Require BIOTECH 2218T General and Applied Entomology (3) and HORTTEC 2890T Plant Diseases of Ornamentals and Turf (3).

Also included in this proposal is the new specialization of Greenhouse Engineering Technology (GET). This proposal was developed by Dr. Robert McMahon, Coordinator of the Greenhouse and Nursery Management program and Dr. Peter Ling, Associate Professor in the Department of Food, Agricultural and Biological Engineering. The Greenhouse Engineering Technology Specialization is proposed to meet increasing engineering technology needs of the horticulture industry for sustainable ornamental, vegetable, and fruit production, particularly with regard to installation, programming, operation and maintenance of computerized environmental control

systems and automated plant production equipment. As more advanced technologies have been incorporated into horticultural plant production, there are critical needs for qualified industry personnel to effectively and efficiently implement these technologies to more profitably manage greenhouse businesses in keeping with the goals of sustainable agriculture.

The Greenhouse Engineering Technology Specialization closely parallels both the Greenhouse Specialization and the Nursery Specialization within the Greenhouse and Nursery Management program. Total credit hours mirror the 63 credits required in those specializations as well. Three new courses developed for this specialization are:

1. HORTTEC 2191.23T: Greenhouse Engineering Technology Internship
2. HORTTEC 3550T: Components of Greenhouse Technologies
3. HORTTEC 3560T: Integrated Greenhouse Climate Control

The results of surveys of the Ohio greenhouse industry and teachers of high school horticulture support this proposed new specialization, as do the Chairs of the Department of Horticulture and Crop Science, the Department of Food, Agricultural, and Biological Engineering, and the ATI Division of Agricultural and Engineering Technologies. The GET specialization was approved by Division of Horticultural Technologies faculty, the Ohio State ATI Academic Affairs Committee and the Ohio State ATI faculty.

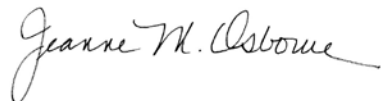
Ohio State ATI is committed to protecting the academic progress of students. In order that this package of Greenhouse and Nursery Management proposed changes will not disrupt progress toward their degrees, course substitutions and manual management of degree audits will occur as needed for students enrolled in this degree program during the transition. When appropriate, coursework completed by students under the current degree program will be utilized for completion of the proposed degree program.

Enclosed please find the following documents:

- Current curriculum plans and course sequences for the Greenhouse Specialization and the Nursery Specialization of the Greenhouse and Nursery Management degree program
- Proposed curriculum plans and course sequences for the Greenhouse Specialization, the Nursery Specialization, and the Greenhouse Engineering Technology Specialization of the Greenhouse and Nursery Management degree program
- List of Non-Technical Course Options at Ohio State ATI

Please let me know if there are questions or additional information or documentation is required to accompany this submission. We look forward to hearing from the FAES Academic Affairs Committee regarding next steps in the approval process.

Sincerely,



Jeanne M. Osborne
Assistant Director, Academic Affairs

OHIO STATE ATI
ASSOCIATE OF APPLIED SCIENCE DEGREE

NON-TECHNICAL COURSE OPTIONS BY CATEGORY*

<u>GENERAL EDUCATION</u>	<u>APPLIED GENERAL EDUCATION</u>	<u>Other General Education course options for Associate of Science degrees</u>
<u>English Composition/Oral Communication</u> AGRCOMM 3130 ENGLISH 1110.01 - REQUIRED	<u>English Composition/Oral Communication</u> GENCOMM 2115T	<u>English Composition/Oral Communication</u> AGRCOMM 2367 ENR 2367
<u>Mathematics/Statistics and Logic</u> GENMATH 1141T GENMATH 1145T STAT 1350	<u>Arts and Humanities</u> GENHUM 1190.01T, 1190.02T, 1190.03T	<u>Mathematics/Statistics and Logic</u> COMLDR 3537 MATH 1130/1131 MATH 1148/1149/1150/1151
<u>Arts and Humanities</u> HISTORY 1152 MUSIC 2250 RELSTDS 2370	<u>Social and Behavioral Sciences</u> BUSTEC 1151T GENSSC 1171T GENSSC 1181T GENSSC 1182T	<u>Arts and Humanities</u> COMPSTD 2301
<u>Social and Behavioral Sciences</u> AEDECON 2001 PSYCH 1100 RURLSOC 1500	<u>Applied Sciences</u> ANMLTEC 3130T ANMLTEC 3150T ANMLTEC 3157T BIOTECH 2218T ENGTECH 2050T ENGTECH 2092T ENGTECH 2121T ENGTECH 2310T ENGTECH 2322T ENGTECH 2345T HORTTEC 2880T HORTTEC 2890T	<u>Social and Behavioral Sciences</u> ENR 2300 ENR 4000
<u>Natural Sciences</u> ANMLTEC 2200T and 2300T ANMLTEC 3140T CRPSOIL 2300T and 2301T GENBIOL 1200T GENBIOL 1250T GENCHEM 1100T GENCHEM 1150T TECPHYS 1150T	<u>Business</u> AEDECON 2105 ANMLTEC 3800T BUSTEC 1202T BUSTEC 2206T BUSTEC 2207T BUSTEC 2208T BUSTEC 2231T BUSTEC 2232T BUSTEC 2241T BUSTEC 2244T BUSTEC 2247T BUSTEC 2249T CRPSOIL 3800T ENGTECH 2331T HORTTEC 2260T HORTTEC 2270T HORTTEC 2620T	<u>Natural Sciences</u> BIOLOGY 1113/1114 CHEM 1110 CHEM 1210/1220 CHEM 2510/2520 ENR 2100 HCS 2201 HCS 2202 MICRBIOL 4000 PHYSICS 1200/1201

* May also be used as a technical studies course but can only be used once.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
GREENHOUSE AND NURSERY MANAGEMENT CURRICULUM PLAN
Greenhouse Specialization**

Ohio State ATI		Major: Greenhouse Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1250T	4
From any of the General Education categories (listed above)	3	GENCHEM 1100T	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		AEDECON 2105 BIOTECH 2218T HORTTEC 2890T AGRCOMM 3130 BUSTEC 1202T GENSSC 1181T	3 3 3 3 1 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T HORTTEC 1201T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		HORTTEC 2189.21T HORTTEC 2190.21T HORTTEC 2191.21T	2 2 3
Other courses determined by program		BIOTECH 2219T HORTTEC 2110T HORTTEC 2150T HORTTEC 2500T HORTTEC 2520T HORTTEC 2540T HORTTEC 2740T	3 3 2 4 3 4 4
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	63

**GHNRMGT-AA GRN
Catalog Year
2015-2016**

**Greenhouse and Nursery Management
Greenhouse Specialization
Associate of Applied Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year—Autumn Semester</u>		
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1250T	General Botany with Applications	4
GENMATH 1141T	Business Mathematics	3
GENSTDS 1201T	College Orientation	.5
HORTTEC 1201T	Exploring Horticulture	.5
*HORTTEC 2189.21T	Practicum in Greenhouse Management	1
HORTTEC 2500T	Greenhouse Environment Control	<u>4</u>
		16
<u>1st Year—Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture (1 st 7 wks)	3
BUSTEC 1202T	Software Applications (1 st 7 wks)	1
GENSSC 1181T	Hispanic Culture & Language in the Workplace (1 st 7 wks)	3
HORTTEC 2150T	Horticultural Root Media (1 st 7 wks)	2
*HORTTEC 2191.21T	Greenhouse Management Internship (2 nd 7 wks)	<u>3</u>
		12
<u>May Session</u>		
*HORTTEC 2191.21T	Greenhouse Management Internship (continued)	0
<u>Summer Session</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*HORTTEC 2189.21T	Practicum in Greenhouse Management	<u>1</u>
		4
<u>2nd Year—Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
BIOTECH 2218T	General and Applied Entomology	3
BIOTECH 2219T	Pesticides and Their Use	3
HORTTEC 2110T	Plant Materials I	3
*HORTTEC 2190.21T	Practical Leadership in Greenhouse Management	1
HORTTEC 2520T	Greenhouse Perennial Production	<u>3</u>
		16
<u>2nd Year—Spring Semester</u>		
GENCHEM 1100T	Introduction to General Chemistry	3
*HORTTEC 2190.21T	Practical Leadership in Greenhouse Management	1
HORTTEC 2540T	Greenhouse Bedding and Flowering Pot Plant Production	4
HORTTEC 2740T	Propagation of Nursery and Greenhouse Plants	4
HORTTEC 2890T	Plant Diseases of Ornamentals and Turf	<u>3</u>
		15
	Total Credits	63

*A grade of C or better is required to meet graduation requirements

**ASSOCIATE OF APPLIED SCIENCE DEGREE
GREENHOUSE AND NURSERY MANAGEMENT CURRICULUM PLAN
Nursery Specialization**

Ohio State ATI		Major: Nursery Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1250T	4
From any of the General Education categories (listed above)	3	GENCHEM 1100T	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		AEDECON 2105 BIOTECH 2218T HORTTEC 2890T AGRCOMM 3130 BUSTEC 1202T GENSSC 1181T	3 3 3 3 1 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T HORTTEC 1201T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		HORTTEC 2189.22T HORTTEC 2191.22T	2 3
Other courses determined by program		BIOTECH 2219T HORTTEC 2150T HORTTEC 2110T HORTTEC 2120T HORTTEC 2410T HORTTEC 2420T HORTTEC 2500T HORTTEC 2740T	3 2 3 3 4 2 4 4
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	63

GHNRMGT-AA NRY
Catalog Year
2015-2016

Greenhouse and Nursery Management
Nursery Specialization
Associate of Applied Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year—Autumn Semester</u>		
BUSTEC 1202T	Software Applications	1
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1250T	General Botany with Applications	4
GENMATH 1141T	Business Mathematics	3
GENSTDS 1201T	College Orientation	.5
HORTTEC 1201T	Exploring Horticulture	.5
*HORTTEC 2189.22T	Practicum in Nursery Management	1
*HORTTEC 2500T	Greenhouse Environment Control	4
		<u>17</u>
<u>1st Year—Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
BIOTECH 2218T	General and Applied Entomology	3
HORTTEC 2110T	Plant Materials I	3
HORTTEC 2150T	Horticultural Root Media (1 st 7 wks)	2
HORTEC 2410T	Sustainable Nursery Production and Management	4
		<u>15</u>
<u>Summer Term</u>		
*HORTTEC 2191.22T	Nursery Management Internship	3
		<u>3</u>
<u>2nd Year—Autumn Semester</u>		
BIOTECH 2219T	Pesticides and Their Use	3
AEDECON 2001	Principles of Food and Resource Economics	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture & Language in the Workplace	3
HORTTEC 2120T	Plant Materials II	3
*HORTTEC 2189.22T	Practicum in Nursery Management	1
		<u>16</u>
<u>2nd Year—Spring Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
HORTTEC 2420T	Garden Center Management	2
*HORTTEC 2740T	Propagation of Nursery and Greenhouse Plants	4
HORTTEC 2890T	Plant Diseases of Ornamentals and Turf	3
		<u>12</u>
	Total Credits	63

*A grade of C or better is required to meet graduation requirements

**ASSOCIATE OF APPLIED SCIENCE DEGREE
GREENHOUSE AND NURSERY MANAGEMENT CURRICULUM PLAN
Greenhouse Engineering Technology Specialization**

Ohio State ATI		Major: Greenhouse Engineering Technology Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1145T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1250T	4
From any of the General Education categories (listed above)	3	GENCHEM 1100T	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		AEDECON 2105 BIOTECH 2218T HORTTEC 2890T AGRCOMM 3130 BUSTEC 1202T GENSSC 1181T	3 3 3 3 1 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T HORTTEC 1201T	0.5 0.5
			17
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		HORTTEC 2189.21T HORTTEC 2190.21T HORTTEC 2191.23T	1 1 3
Other courses determined by program		HORTTEC 2150T HORTTEC 2500T HORTTEC 2520T ENGTECH 2312T ENGTECH 2322T ENGTECH 2325T HORTTEC 3550T HORTTEC 3560T	2 4 3 3 3 3 3 4
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	63

GHNRMGT-AA GET
Catalog Year
2015-2016

Greenhouse and Nursery Management
Greenhouse Engineering Technology Specialization
Associate of Applied Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year—Autumn Semester</u>		
ENGLISH 1110.01	First-Year English Composition	3
ENGTECH 2312T	Engineering Technology Fundamentals	3
GENMATH 1145T	Technical Mathematics	3
GENSTDS 1201T	College Orientation	.5
HORTTEC 1201T	Exploring Horticulture	.5
*HORTTEC 2189.21T	Practicum in Greenhouse Management	1
HORTTEC 2500T	Greenhouse Environment Control	<u>4</u>
		15
<u>1st Year—Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
BUSTEC 1202T	Software Applications	1
ENGTECH 2322T	Basic Electricity and Electronics	3
GENBIOL 1250T	General Botany with Applications	4
GENSSC 1181T	Hispanic Culture & Language in the Workplace	3
HORTTEC 2150T	Horticultural Root Media (1 st 7 wks)	<u>2</u>
		16
<u>Summer Term</u>		
*HORTTEC 2191.23T	Greenhouse Engineering Technology Internship	<u>3</u>
		3
<u>2nd Year—Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
BIOTECH 2218T	General and Applied Entomology	3
ENGTECH 2325T	Analog and Digital Electronics	3
HORTTEC 3550T	Components of Greenhouse Technologies	3
HORTTEC 2520T	Greenhouse Perennial Production	<u>3</u>
		15
<u>2nd Year—Spring Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
GENCHEM 1100T	Introduction to General Chemistry	3
*HORTTEC 2190.21T	Practical Leadership in Greenhouse Management	1
HORTTEC 2890T	Plant Diseases of Ornamentals and Turf	3
HORTTEC 3560T	Integrated Greenhouse Climate Control	<u>4</u>
		14
	Total Credits	63

*A grade of C or better is required to meet graduation requirements

**ASSOCIATE OF APPLIED SCIENCE DEGREE
GREENHOUSE AND NURSERY MANAGEMENT CURRICULUM PLAN
Greenhouse Specialization**

Ohio State ATI – AAS Degree		Major:	Greenhouse Specialization	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
Basic & Applied Writing, and Speaking/Listening	6 cr	GENCOMM 1115T AGRCOMM 3130	Technical and Business Writing Oral Expression in Agriculture	3 3
Technical Mathematics	3 cr	GENMATH 1141T	Business Mathematics	3
Natural Science Biology/Zoology/Botany Chemistry Physics	3-5 cr	GENBIOL 1250T	General Botany with Applications	4
Economics and Personal Finance, and Individual development, or Group processes	6 cr	BUSTEC 1151T GENSSC 1181T	General Economics Hispanic Culture and Language in the Workplace	3 3
Culture/Art/Music/Literature	3 cr	HUMANITIES	Elective	3
Intro to Computer Applications	1 cr	BUSTEC 1202T	Software Applications	1
College/Career Orientation	1 cr	GENSTDS 1201T HORTTEC 1201T	College Orientation Exploring Horticulture	0.5 0.5
General Total	23-25 cr			24
Other Non-technical Math Writing Culture/Art/Music/Literature Social and Behavioral Science Science and Applied Science	5 cr	GENCHEM 1100T BIOTECH 2219T	Introduction to General Chemistry Pesticides and Their Use	3 3
Non-Tech Total	28-30 cr			30
Business requirement	2 cr	AEDECON 2105	Managerial Records and Analysis	3
Other courses/content to be determined by technologies	28 cr	HORTTEC 2110T HORTTEC 2150T HORTTEC 2500T HORTTEC 2520T HORTTEC 2540T	Plant Materials I Horticultural Root Media Greenhouse Environment Control Greenhouse Perennial Production Greenhouse Bedding and Flower Pot Plant Production	3 2 4 3 4
Industry/Practical experience	3 cr min – 9 cr max (min 2 cr internship)	HORTTEC 2740T BIOTECH/HORTTEC HORTTEC 2189.21T HORTTEC 2190.21T HORTTEC 2191.21T	Propagation of Nursery and Greenhouse Plants Elective Practicum in Greenhouse Management Practical Leadership in Greenhouse Management Greenhouse Management Internship	4 3 2 2 3
Technical Total	33 min cr			33
Degree Totals	61 cr min– 70 cr max			63

GHNRMGT-AA GRN
Catalog Year
2014-2015

**Greenhouse and Nursery Management
Greenhouse Specialization
Associate of Applied Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year—Autumn Semester</u>		
GENBIOL 1250T	General Botany with Applications	4
GENCOMM 1115T	Technical and Business Writing	3
GENMATH 1141T	Business Mathematics	3
GENSTDS 1201T	College Orientation	.5
HORTTEC 1201T	Exploring Horticulture	.5
*HORTTEC 2189.21T	Practicum in Greenhouse Management	1
HORTTEC 2500T	Greenhouse Environment Control	<u>4</u>
		16
<u>1st Year—Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture (1 st 7 wks)	3
BUSTEC 1202T	Software Applications (1 st 7 wks)	1
GENSSC 1181T	Hispanic Culture & Language in the Workplace (1 st 7 wks)	3
HORTTEC 2150T	Horticultural Root Media (1 st 7 wks)	2
*HORTTEC 2191.21T	Greenhouse Management Internship (2 nd 7 wks)	<u>3</u>
		12
<u>May Session</u>		
*HORTTEC 2191.21T	Greenhouse Management Internship (continued)	0
<u>Summer Session</u>		
BUSTEC 1151T	General Economics (online)	3
*HORTTEC 2189.21T	Practicum in Greenhouse Management	<u>1</u>
		4
<u>2nd Year—Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
BIOTECH 2219T	Pesticides and Their Use	3
HORTTEC 2110T	Plant Materials I	3
*HORTTEC 2190.21T	Practical Leadership in Greenhouse Management	1
HORTTEC 2520T	Greenhouse Perennial Production	3
HUMANITIES	Elective	<u>3</u>
		16
<u>2nd Year—Spring Semester</u>		
GENCHEM 1100T	Introduction to General Chemistry	3
*HORTTEC 2190.21T	Practical Leadership in Greenhouse Management	1
HORTTEC 2540T	Greenhouse Bedding and Flowering Pot Plant Production	4
HORTTEC 2740T	Propagation of Nursery and Greenhouse Plants	4
HORTTEC/BIOTECH	Technical elective	<u>3</u>
		15
	Total Credits	63

*A grade of C or better is required to meet graduation requirements

GHNRMGT-AA GRN
Catalog Year
2014-2015

**Greenhouse and Nursery Management
Greenhouse Specialization
Associate of Applied Science**

Technical Elective options:

BIOTECH 2218T	General and Applied Entomology	3
HORTEC 2890T	Plant Diseases of Ornamentals and Turf	3

Humanities Elective options:

GENHUM 1190.01T	Humanities as a Window on Cultural Pluralism: The Arts in Ghana	3
GENHUM 1190.02T	Humanities as a Window on Cultural Pluralism: Global Arts	3
GENHUM 1190.03T	Humanities as a Window on Cultural Pluralism: US City Arts	3
COMPSTD 2370	Introduction to Comparative Religion	3
HISTORY 1152	American Civilization since 1877	3
MUSIC 2250	Music Cultures of the World	3

**ASSOCIATE OF APPLIED SCIENCE DEGREE
GREENHOUSE AND NURSERY MANAGEMENT CURRICULUM PLAN
Nursery Specialization**

Ohio State ATI – AAS Degree		Major:	Nursery Specialization	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
Basic & Applied Writing, and Speaking/Listening	6 cr	GENCOMM 1115T AGRCOMM 3130	Technical and Business Writing Oral Expression in Agriculture	3 3
Technical Mathematics	3 cr	GENMATH 1141T	Business Mathematics	3
Natural Science Biology/Zoology/Botany Chemistry Physics	3-5 cr	GENBIOL 1250T	General Botany with Applications	4
Economics and Personal Finance, and Individual development, or Group processes	6 cr	BUSTEC 1151T GENSSC 1181T	General Economics Hispanic Culture and Language in the Workplace	3 3
Culture/Art/Music/Literature	3 cr	HUMANITIES	Elective	3
Intro to Computer Applications	1 cr	BUSTEC 1202T	Software Applications	1
College/Career Orientation	1 cr	GENSTDS 1201T HORTTEC 1201T	College Orientation Exploring Horticulture	0.5 0.5
General Total	23-25 cr			24
Other Non-technical Math Writing Culture/Art/Music/Literature Social and Behavioral Science Science and Applied Science	5 cr	GENCHEM 1100T BIOTECH 2219T	Introduction to General Chemistry Pesticides and Their Use	3 3
Non-Tech Total	28-30 cr			30
Business requirement	2 cr	AEDECON 2105	Managerial Records and Analysis	3
Other courses/content to be determined by technologies	28 cr	HORTTEC 2110T HORTTEC 2120T HORTTEC 2150T HORTTEC 2410T	Plant Materials I Plant Materials II Horticultural Root Media Sustainable Nursery Management and Production	3 3 2 4
Industry/Practical experience	3 cr min – 9 cr max (min 2 cr internship)	HORTTEC 2420T HORTTEC 2500T HORTTEC 2740T BIOTECH/HORTTEC HORTTEC 2189.22T HORTTEC 2191.22T	Garden Center Management Greenhouse Environment Control Propagation of Nursery and Greenhouse Plants Elective Practicum in Nursery Management Nursery Management Internship	2 4 4 3 2 3
Technical Total	33 min cr			33
Degree Totals	61 cr min– 70 cr max			63

GHNRMGT-AA NRY
Catalog Year
2014-2015

**Greenhouse and Nursery Management
Nursery Specialization
Associate of Applied Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year—Autumn Semester</u>		
GENBIOL 1250T	General Botany with Applications	4
GENCOMM 1115T	Technical and Business Writing	3
GENMATH 1141T	Business Mathematics	3
GENSTDS 1201T	College Orientation	.5
HORTTEC 1201T	Exploring Horticulture	.5
*HORTTEC 2189.22T	Practicum in Nursery Management	1
BUSTEC 1202T	Software Applications	1
*HORTTEC 2500T	Greenhouse Environment Control	4
		<u>17</u>
<u>1st Year—Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
HORTTEC 2150T	Horticultural Root Media (1 st 7 wks)	2
HORTTEC 2110T	Plant Materials I	3
HORTEC 2410T	Sustainable Nursery Production and Management	4
HUMANITIES	Elective	3
		<u>15</u>
<u>Summer Term</u>		
*HORTTEC 2191.22T	Nursery Management Internship	3
		<u>3</u>
<u>2nd Year—Autumn Semester</u>		
BIOTECH 2219T	Pesticides and Their Use	3
GENSSC 1181T	Hispanic Culture & Language in the Workplace	3
GENCHEM 1100T	Introduction to General Chemistry	3
HORTTEC 2120T	Plant Materials II	3
*HORTTEC 2189.22T	Practicum in Nursery Management	1
BUSTEC 1151T	General Economics	3
		<u>16</u>
<u>2nd Year—Spring Semester</u>		
*HORTTEC 2740T	Propagation of Nursery and Greenhouse Plants	4
HORTTEC 2420T	Garden Center Management	2
AEDECON 2105	Managerial Records and Analysis	3
HORTTEC/BIOTECH	Technical Elective	3
		<u>12</u>
	Total Credits	63

*A grade of C or better is required to meet graduation requirements

GHNRMGT-AA NRY
Catalog Year
2014-2015

Greenhouse and Nursery Management
Nursery Specialization
Associate of Applied Science

Technical Elective options:

BIOTECH 2218T	General and Applied Entomology	3
HORTEC 2890T	Plant Diseases of Ornamentals and Turf	3

Humanities Elective options:

GENHUM 1190.01T	Humanities as a Window on Cultural Pluralism: The Arts in Ghana	3
GENHUM 1190.02T	Humanities as a Window on Cultural Pluralism: Global Arts	3
GENHUM 1190.03T	Humanities as a Window on Cultural Pluralism: US City Arts	3
COMPSTD 2370	Introduction to Comparative Religion	3
HISTORY 1152	American Civilization since 1877	3
MUSIC 2250	Music Cultures of the World	3