

Reed, Katie

From: Neal, Steve
Sent: Thursday, March 24, 2016 3:10 PM
To: Smith, Randy
Cc: Reed, Katie; Martin, Linda
Subject: Revision of ATI Certificate Programs
Attachments: Sports & Commercial Turf Equipment Certificate - Sp2016.pdf; Hydraulic Service & Repair Certificate - Sp2016.pdf

Randy,

The College of Food, Agricultural, and Environmental Sciences is requesting Council on Academic Affairs approval for revisions to the Sports/Commercial Turf Equipment Certificate and the Hydraulic Service and Repair Certificate offered at the Agricultural Technical Institute (ATI) to be effective beginning Autumn 2016. As you are aware, the Ohio Department of Higher Education revised requirements for certificates and the Agricultural Technical Institute has modified these programs to bring them into compliance. The revised certificates also conform to the updated Certificate of Competency requirement framework which was approved by CAA in autumn 2015.

A proposal is attached for each certificate program, consisting of a cover memo; the existing curriculum plan and course sequence; and the proposed curriculum plan and course sequence.

Each of the proposals have been approved by the ATI Academic Affairs Committee and they have also been reviewed and approved by the College Academic Affairs Committee. Please let me know if any additional information is needed in support of this request.

Steve



Steven M. Neal, Ph.D.

Professor and Assistant Dean for Academic Affairs
College of Food, Agricultural, and Environmental Sciences
100E Agricultural Administration, 2120 Fyffe Rd. Columbus, OH 43210
Office: 614-292-1734
Fax: 614-292-1218
neal.2@osu.edu



February 22, 2016

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 plan for the Hydraulic Service and Repair Certificate of Competency (HYDSERV-CR), submitted for consideration by the FAES Academic Affairs Committee. The modifications of the current curriculum plan respond to the Ohio Department of Higher Education (ODHE) revised requirements for this certificate as indicated in the revised *Guidelines and Procedures for Academic Program Review* document, and are in alignment with the approved curriculum plan template for the Ohio State ATI Certificate of Competency. The changes are also consistent with the approved revisions to related associate degree programs, and thus support the requirement that certificates are 'building blocks toward future degrees and with the intent of articulating the program into the next degree' (*Guidelines and Procedures for Academic Program Review*, p. 58).

While still maintaining the career preparation integrity of the Hydraulic Service and Repair Certificate of Competency, the following changes were made:

1. GENCOMM 1115 Technical and Business Writing was removed (-3)
2. The option of ENGLISH 1110.01 First-Year English Composition or AGRCOMM 3130 Oral Expression in Agriculture was added. (+3)
3. Social Science/ Humanities was removed (-3)
4. GENMATH 1140T Technical Mathematics I was removed (-3) and a minimum Math placement level requirement was added.
5. Free Elective was added (+3)
6. BUSTEC Elective was change from 2 credits to 3 credits (+1)
7. Total credit hours were changed from 34 to 32

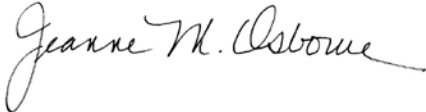
The proposed curriculum plan was developed by the Coordinator for the certificate. The courses that are included in the current and proposed curriculum plan were selected in consultation with other faculty involved in the Certificate as well as stakeholder advisory committees and/or individuals. The proposed curriculum plan and course sequence were approved by the Agricultural and Engineering Technologies Division at Ohio State ATI and the Ohio State ATI Academic Affairs committee. Ohio State ATI is committed to protecting the academic progress of students. In order that this proposed Certificate change will not disrupt progress toward their degree, course substitutions and manual management of the degree audits will occur as needed for students enrolled in this Certificate during the transition. When appropriate, coursework completed by students under the current Certificate will be utilized for completion of the proposed Certificate.

Enclosed please find the following documents:

- Current curriculum plan and course sequence for the Hydraulic Service and Repair Certificate
- Proposed curriculum plan and course sequence for the Hydraulic Service and Repair Certificate

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,

A handwritten signature in cursive script that reads "Jeanne M. Osborne". The signature is written in black ink and is positioned above the typed name.

Jeanne M. Osborne
Assistant Director, Academic Affairs

**CERTIFICATE OF COMPETENCY
HYDRAULIC SERVICE AND REPAIR CURRICULUM PLAN**

Ohio State ATI – Certificate of Competency	Major:	Hydraulic Service and Repair	
Subject	Course Dept. & Number	Course Title	Crs
Communications	GENCOMM 1115T	Technical and Business Writing	3
Mathematics	GENMATH 1140T	Technical Mathematics I	3
Basic or applied science	ENGTECH 2322T	Basic Electricity and Electronics	3
Social Science	SOCIAL SCIENCE or HUMANITIES	Elective	3
Orientation	GENSTDS 1201T	College Orientation	0.5
	ENGTECH 1201.01T	Exploring Engineering Technologies	0.5
Non-Tech Total - Min of 8 cr			13
Technical Courses	BUSTEC 1202T	Software Applications	1
	BUSTEC	Elective (Consult advisor for selection)	2
	ENGTECH 2214T	Fundamentals of Fluid Power and Components	4
	ENGTECH 2221T	Component Rebuilding	2
	ENGTECH 2224T	Fluids, Filtration, and Fluid Conveyance	2
	ENGTECH 2240T	Welding Technology	3
	ENGTECH 2312T	Engineering Technology Fundamentals	3
	ENGTECH 2336T	Methods of Power Transmission	2
	ENGTECH	Elective (Consult advisor for selection)	2
	Technical Total Min of 18 cr - Max of 22 cr		
Degree Totals – Min of 30 cr			34

HYDSERV-CR
Catalog Year
2014-2015

**Hydraulic Service and Repair
Certificate**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
BUSTEC 1202T	Software Applications	1
ENGTECH 1201.01T	Exploring Engineering Technologies	.5
ENGTECH 2214T	Fundamentals of Fluid Power and Components	4
ENGTECH 2240T	Welding Technology	3
ENGTECH 2312T	Engineering Technology Fundamentals	3
ENGTECH 2336T	Methods of Power Transmission	2
GENMATH 1140T	Technical Mathematics I	3
GENSTDS 1201T	College Orientation	<u>.5</u>
		17
<u>1st Year – Spring Semester</u>		
BUSTEC	Elective	2
ENGTECH	Elective	2
ENGTECH 2221T	Component Rebuilding	2
ENGTECH 2224T	Fluids, Filtration, and Fluid Conveyance	2
ENGTECH 2322T	Basic Electricity and Electronics	3
GENCOMM 1115T	Technical and Business Writing	3
SOCIAL SCIENCE/ HUMANITIES	Elective	<u>3</u>
		17
	Total Credits	34

HYDSERV-CR
Catalog Year
2014-2015

Hydraulic Service and Repair
Certificate

BUSTEC Elective options – 2 credits required

BUSTEC 1151T	General Economics	3
BUSTEC 2100T	Introduction to Business	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2232T	Personal Selling	3
BUSTEC 2241T	Small Business Management	3
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3

ENGTECH Elective options – 2 credits required

ENGTECH 2050T	Introduction to Geographic Information Systems	3
ENGTECH 2234T	Basic Pneumatic Systems	2
ENGTECH 2238T	Electrohydraulics and System Design	3
ENGTECH 2242T	Metals and Metal Manufacturing	2

SOCIAL SCIENCE/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
GENSSC 1171T	Human Relationships in the 21 st Century	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
GENSSC 1182T	Deaf Culture and American Sign Language	3
COMPSTD 2370	Introduction to Comparative Religion	3
HISTORY 1152	American Civilization since 1877	3
MUSIC 2250	Music Cultures of the World	3
PSYCH 1100	General Psychology	3
RURLSOC 1500	Introduction to Rural Sociology	3

**CERTIFICATE OF COMPETENCY
HYDRAULIC SERVICE AND REPAIR CURRICULUM PLAN**

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Subject	Course Dept. & Number	Course Title	Crs
General and Applied Education	BUSTEC 1202T	Software Applications	1
	ENGLISH 1110.01 or AGRCOMM 3130	First-Year English Composition or Oral Expression in Agriculture	3
	ENGTECH 1201.01T	Exploring Engineering Technologies	0.5
	ENGTECH 2322T	Basic Electricity and Electronics	3
	GENSTDS 1201T	College Orientation	0.5
	Elective	Elective (free)	3
	Technical Education	BUSTEC elective	See list
ENGTECH 2214T		Fundamentals of Fluid Power and Components	4
ENGTECH 2221T		Component Rebuilding	2
ENGTECH 2224T		Fluids, Filtration, and Fluid Conveyance	2
ENGTECH 2240T		Welding Technology	3
ENGTECH 2312T		Engineering Technology Fundamentals	3
ENGTECH 2336T		Methods of Power Transmission	2
ENGTECH elective		See list	2
			32
Certificate Total: Min 30cr - Max 36cr			

Students must be eligible to enroll in GENMATH 1141T or 1145T to complete the certificate requirements. If not eligible to enroll in GENMATH 1141T or 1145T, students will need to successfully complete remedial mathematics courses depending on placement levels.

BUSTEC Elective options – 3 credits required

BUSTEC 1151T	General Economics	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2232T	Personal Selling	3
BUSTEC 2241T	Small Business Management	3
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3

ENGTECH Elective options – 2 credits required

ENGTECH 2050T	Introduction to Geographic Information Systems	3
ENGTECH 2234T	Basic Pneumatic Systems	2
ENGTECH 2238T	Electrohydraulics and System Design	3
ENGTECH 2242T	Metals and Metal Manufacturing	2

**CERTIFICATE OF COMPETENCY
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	ENGTECH 1201.01T	Exploring Engineering Technologies	0.5
	ENGTECH 2322T	Basic Electricity and Electronics	3
	GENSTDS 1201T	College Orientation	0.5
	Elective	Elective (free)	3
	Technical Education	BUSTEC elective	See list
ENGTECH 2214T		Fundamentals of Fluid Power and Components	4
ENGTECH 2221T		Component Rebuilding	2
ENGTECH 2224T		Fluids, Filtration, and Fluid Conveyance	2
ENGTECH 2240T		Welding Technology	3
ENGTECH 2312T		Engineering Technology Fundamentals	3
ENGTECH 2336T		Methods of Power Transmission	2
ENGTECH elective		See list	2
			32
Certificate Total: Min 30cr - Max 36cr			

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BUSTEC Elective options – 3 credits required

BUSTEC 1151T	General Economics	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2232T	Personal Selling	3
BUSTEC 2241T	Small Business Management	3
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3

ENGTECH Elective options – 2 credits required

ENGTECH 2050T	Introduction to Geographic Information Systems	3
ENGTECH 2234T	Basic Pneumatic Systems	2
ENGTECH 2238T	Electrohydraulics and System Design	3
ENGTECH 2242T	Metals and Metal Manufacturing	2

HYDSERV-CR
Catalog Year
2016-2017

Hydraulic Service and Repair
Certificate

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
BUSTEC 1202T	Software Applications	1
ENGTECH 1201.01T	Exploring Engineering Technologies	.5
ENGTECH 2214T	Fundamentals of Fluid Power and Components	4
ENGTECH 2240T	Welding Technology	3
ENGTECH 2312T	Engineering Technology Fundamentals	3
ENGTECH 2336T	Methods of Power Transmission	2
GENSTDS 1201T	College Orientation	.5
Elective	Elective (free)	<u>3</u>
		17
<u>1st Year – Spring Semester</u>		
BUSTEC	Elective	3
ENGLISH 1110.01 or AGRCOMM 3130	First-Year Composition or Oral Expression in Agriculture	3
ENGTECH	Elective	2
ENGTECH 2221T	Component Rebuilding	2
ENGTECH 2224T	Fluids, Filtration, and Fluid Conveyance	2
ENGTECH 2322T	Basic Electricity and Electronics	<u>3</u>
		14
	Total Credits	32

Students must be eligible to enroll in GENMATH 1141T or 1145T to complete the certificate requirements. If not eligible to enroll in GENMATH 1141T or 1145T, students will need to successfully complete remedial mathematics courses depending on placement levels.

BUSTEC Elective options – 3 credits required

BUSTEC 1151T	General Economics	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2232T	Personal Selling	3
BUSTEC 2241T	Small Business Management	3
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3

ENGTECH Elective options – 2 credits required

ENGTECH 2050T	Introduction to Geographic Information Systems	3
ENGTECH 2234T	Basic Pneumatic Systems	2
ENGTECH 2238T	Electrohydraulics and System Design	3
ENGTECH 2242T	Metals and Metal Manufacturing	2