

**Appendix A**  
**The Survey Instrument**

## **Technology Education**

A Study to Determine the Relative Importance  
of  
Curriculum Organizers

1) Please indicate the degree that you feel qualified to teach the following areas of technology. Please circle one number for each area.

1 = Highly Qualified    2 = Qualified    3 = Not qualified

1	2	3	Health & Medicine	1	2	3	Military
1	2	3	Manufacturing	1	2	3	Recreation and Entertainment
1	2	3	Transportation	1	2	3	Construction
1	2	3	Agriculture	1	2	3	Energy
1	2	3	Communication	1	2	3	Educational Technology

2) Please indicate the level of importance that you feel should be placed on the following educational objectives in K-12 technology education programs. Please circle one number for each objective.

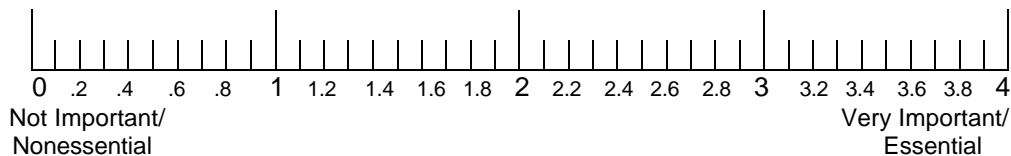
1 = Very Important    2 = Important    3 = Somewhat Important    4 = Not Important

1	2	3	4	Develop an understanding and appreciation for the importance of fundamental technological developments.
1	2	3	4	Develop the full human personality.
1	2	3	4	Develop the ability to understand and assess the issues and outcomes of technological activities.
1	2	3	4	Develop an appreciation for product design and quality.
1	2	3	4	Develop technological literacy with respect to the laws and standards applicable to specific technical fields
1	2	3	4	Develop an understanding of the occupational choices available in technical fields.
1	2	3	4	Develop an appreciation for the interrelationships among technology, cultures, the environment, and other human endeavors.
1	2	3	4	Develop the ability to use tools and machines.
1	2	3	4	Develop basic management skills in preparation for potential employment in a technical field.
1	2	3	4	Develop knowledge about and appreciation for the ways that human ingenuity and resources combine to meet human needs and wants.
1	2	3	4	Develop basic trade related skills which prepare the student for potential employment in a technical field.
1	2	3	4	Develop the ability to apply practical problem-solving / design techniques through a creative process.
1	2	3	4	Develop an understanding about the necessity of lifelong technological learning in order to adapt to changing technological careers and environments.

3) Please complete the table below based on the following assumptions:

- *People interact with technology from three perspectives or spheres: Civic-life, Personal-life, and Work-life.*
- *The concept of these three spheres represents one model which exhaustively encompasses human interaction with technology.*
- *K-12 students have limited time to study technology. A broad-based K-12 technology curriculum emphasizes those areas which are most likely to prepare people to interact with technology.*

Please indicate the relative importance of each of the following “use of technology” - study areas as they apply to each of the three spheres. Because this range (which is graphically depicted below) represents a ratio level of measurement, please feel free to write in *whatever* digital number you feel is appropriate between and including 0 and 4. Please do not leave any spaces blank. Please consider each column separately.



**Remember**, in this case 0 = Not Important and 4 = Very Important

Use of Technology Study Areas	Civic-Life Sphere	Personal-Life Sphere	Work-Life Sphere
Agriculture			
Communication			
Construction			
Educational Technology			
Energy			
Health & Medicine			
Manufacturing			
Military			
Recreation and Entertainment			
Transportation			

4) If you were to develop a broad-based K-12 technology program which organized instruction according to the three spheres of human/technology interaction, what percentage of the curriculum would you allocate to each sphere? In the blank to the left of each sphere, please write the percentage you consider appropriate Total of the three spheres = 100%.

\_\_\_\_\_ % Civic-life sphere      \_\_\_\_\_ % Personal-life sphere      \_\_\_\_\_ % Work-life sphere

5) Please fill in the following:

Number of undergraduate majors in a formalized technology  
(industrial technology) teacher preparation program: \_\_\_\_\_

Number of undergraduate majors in a formalized  
**non-teacher** preparation technology program: \_\_\_\_\_

6) Please check the following statement which you feel best represents your viewpoint :

\_\_\_\_\_ Technology education in a K-12 program should be organized to meet broad based technological literacy goals and provide very limited if any training for future employment in a technical field.

\_\_\_\_\_ Technology education in a K-12 program should be organized to meet broad based technological literacy goals balanced with training for future employment in a technical field.

\_\_\_\_\_ Technology education in a K-12 program should be organized to provide training for future employment in a technical field with a minimal if any concentration on broad based technological literacy goals.

❖ **CONSTRUCTION:** site built structures

Please respond to the following as pertains to technology teacher education majors in your department.

7) With respect to *required technical subjects*, please estimate what percentage of formal instructional contact hours are devoted to course work in construction.

\_\_\_\_\_ %

8) Please check the most appropriate box. Construction course work is offered as:

- a) an individual course(s) [  ]
- b) part of another course(s) (such as production) [  ]
- c) both [  ]
- d) not offered [  ]

➤ If offered, please check one of the following.

Construction is: required [  ] elective [  ] both [  ]

9) Please estimate the percentage of *construction-related* instruction utilizing the following methods. The total for all categories should equal 100%.

Classroom lecture/discussion:	_____ %
Model fabrication - lab experience	_____ %
Computer simulation - lab experience	_____ %
Full-scale fabrication - lab experience	_____ %
Actual site experience	_____ %
Other: _____	_____ %

10) Please indicate the approximate percentage of the *construction* curriculum focused on each of the following categories. The total of the three should equal 100%.

_____ % Residential	_____ % Commercial/Industrial	_____ % Infrastructure
( Homes )	( Businesses )	( Public works )

11) With regard to construction-related courses in your department, please mark the scale below to indicate the degree of content orientation versus process orientation that best represents your department's instructional focus.

1	2	3	4	5	6	7	8	9	10
CONTENT ORIENTATION					PROCESS ORIENTATION				

*Your participation is greatly appreciated.*

***Thank You!***

**Appendix B**  
**Correspondence**

To: XXXXXXX@nau.edu  
From: Scott Clucas <sclucas@vt.edu>  
Subject: Research project  
Cc:  
Bcc:  
X-Attachments:

Dear Dr. XXXXXXX

I am sending you this e-mail to request your participation in a nationwide survey of technology teacher education programs. The survey focuses on your perception of the importance of certain goals and study areas as they relate to technology education in the public schools. The survey takes approximately 20 minutes to complete.

I am conducting this study as part of my doctoral dissertation. After completing it, I intend to pursue publication of an article in the Journal of Technology Education in an effort to share the findings. I would very much appreciate your assistance. Please indicate your willingness to participate by checking one of the spaces below. Following an affirmative reply I will mail a copy of the survey to you.

YES - I am willing to fill out a survey. \_\_\_\_\_

No - I am not willing to fill out a survey. \_\_\_\_\_

Please do not hesitate to contact me if you have any questions.  
Thank you,

Scott Clucas  
Technology Education Program  
Virginia Polytechnic Institute and State University  
144 Smyth Hall Blacksburg, VA 24061  
sclucas@vt.edu  
(540) 961-6801

Dr. XXXXXX  
Chicago State University  
College of Education  
Dept. of Occupational Education  
Chicago, IL 60628

Dear Dr. XXXXXX:

Enclosed is a survey which represents a significant part of the research effort I have undertaken for my dissertation. Aside from the fact that I would be very grateful if you would complete it and return it to me, I firmly believe that the time and thought you contribute will prove to be of value to the technology teacher education field.

The survey takes approximately 25 minutes to complete, and focuses on your perception of the importance of certain goals and study areas as they relate to technology education in the public schools. Your beliefs or values related to this field are essential to this study and will shape the results. Following the completion of this research, I intend to pursue publication of an article in the *Journal of Technology Education* in an effort to share the findings.

The enclosed survey has three basic components:

- You will be asked to provide limited information about yourself and your program or department.
- You will be asked to evaluate some possible goals for broad-based kindergarten through 12th grade (K-12) technology education programs.
- You will also be asked to evaluate the importance of certain curriculum organizers or study areas as they might apply to humans interacting with technology from a civic perspective, a personal perspective, or a work perspective. You will also be asked to consider the percentage of the K-12 technology education curriculum that should be allocated to each of these perspectives or spheres.

Please note that the surveys have been coded to for the purpose of tracking responses. However, rest assured that any and all personal information related to this research will be treated as confidential.

Please do not hesitate to contact me if you have any questions or concerns. Again, thank you very much for contributing to this research effort.

Scott Lucas  
Virginia Polytechnic Institute and State University  
Technology Education Program  
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Blacksburg, VA 24061  
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(540) 961-6801

Dr. XXXXXX  
The University of Georgia  
College of Education  
Program of Technological Studies  
629 Aderhold Hall  
Athens, GA 30602

Dear Dr. XXXXXX:

Enclosed is a survey which represents a significant part of the research effort I have undertaken for my dissertation. Aside from the fact that I would be very grateful if you would complete it and return it to me, I firmly believe that the time and thought you contribute will prove to be of value to the technology teacher education field.

The survey takes approximately 25 minutes to complete, and focuses on your perception of the importance of certain goals and study areas as they relate to technology education in the public schools. Your beliefs or values related to this field are essential to this study and will shape the results. Following the completion of this research, I intend to pursue publication of an article in the *Journal of Technology Education* in an effort to share the findings.

The enclosed survey has four basic components:

- You will be asked to provide limited information about yourself and your program or department.
- You will be asked to evaluate some possible goals for broad-based kindergarten through 12th grade (K-12) technology education programs.
- You will also be asked to evaluate the importance of certain curriculum organizers or study areas as they might apply to humans interacting with technology from a civic perspective, a personal perspective, or a work perspective. You will also be asked to consider the percentage of the K-12 technology education curriculum that should be allocated to each of these perspectives or spheres.
- You will also be asked to provide some information about construction classes taught in your department.

Please note that the surveys have been coded to for the purpose of tracking responses. However, rest assured that any and all personal information related to this research will be treated as confidential.

Please do not hesitate to contact me if you have any questions or concerns. Again, thank you very much for contributing to this research effort.

Scott Clucas  
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## Facsimile

Dear

I mailed you a survey several weeks ago and have not received it yet. Your contribution to this research is extremely important. Please complete the survey and return it to me as soon as possible. If you have any questions or do not have the survey, please contact me. I can be reached in the following ways:

E-Mail: sclucas@vt.edu

Telephone: (540) 961-6801

Fax: (540) 961-6801

U.S. Mail: Scott Clucas  
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