

Summary Report

CEP & ABET survey to Determine Degree of Interest in Obtaining ABET Accreditation for Programs in “Cyber Sciences.”

March 9, 2016

CEP Representative:

C. Steven Lingafelt

ABET Representatives:

Alena Treen

Rochelle Williams

Table of Contents

| | |
|--|----|
| Survey Logistics | 3 |
| Survey Results | 4 |
| Responder Information..... | 4 |
| Program Name – Frequency of Occurrence | 8 |
| All Programs (Existing & Contemplated) = 74..... | 8 |
| Existing Programs = 58..... | 9 |
| Contemplated Programs = 16 | 10 |
| Programs with Interest in “Cyber Sciences” | 11 |
| Existing Interested Programs – ABET Accredited = 20..... | 11 |
| Existing Interested Programs – Not ABET accredited = 38 | 13 |
| Future Program with Contemplated Name = 27 | 15 |
| Anticipate Reassessment of a Future Potential Program = 28 | 17 |
| Appendix | 18 |
| Survey Content..... | 18 |
| Welcome Screen: | 18 |
| Questions: | 18 |
| Survey FAQ – Hosted on CEP web site – Linked from survey | 21 |

Survey Logistics

ABET surveyed all program focals contained in its database using survey monkey. This is the typical tool utilized by ABET for surveys.

Timing:

- An initial request email was sent by ABET 1/28/16 to the intuition's focal points.
- A "remainder" email was sent on 2/18/16.
- The survey was active from January 25 until Feb 29th.

An FAQ, addressing anticipated questions from survey recipients, was posted on the CEP web site

The survey questions and FAQ artifacts are included in the appendix of this report.

The collected input is summarized in the following section.

Survey Results

Responder Information

| Measure | Number | Percentage |
|--|--------|------------|
| Number of institutions surveyed | 670 | |
| Responses recorded by survey system | 126 | 19% |
| Responses with limited/no information | 28 | 4% |
| Responses with at least some information | 98 | 15% |
| US Institutions | 115 | 91% |
| Outside US Institutions | 11 | 9% |

The following institutions were identified in the survey data and if an existing or contemplated future program name was provided, it is listed in column two and/or three. For some responses, not program name was provided. For some institutions, two responses were submitted, which is represented by two rows in the table.

| Institution Name | Existing Program Name | Contemplated Program Name |
|--|--|--|
| Arizona State University | Information Technology | |
| Arkansas Tech University | BS in Information Technology | BS in Cybersecurity |
| Baker College | Information Technology and Security | |
| Bethune-Cookman University | | |
| Bloomsburg University of Pennsylvania | Digital Forensics | |
| Cal Poly, San Luis Obispo | | |
| Cal State San Bernardino | Cyber Security | |
| California State University, Fullerton | Computer Science | Computer Security |
| California State University - Long Beach | | |
| California State University, Fullerton | Computer Science | |
| Capella University | BSIT/ Information Assurance & Security | Master of Science -Information Assurance & Security. Specialization so in either Digital Forensics, Network Defense or Healthcare Security |
| Capitol Technology University | Cyber Security | Computer Science with certificate in secure software design |
| Carnegie Mellon University | | |
| Charleston Southern University | Track of our Current Bac | |
| City University of Seattle | | |

| | | |
|--|--|--|
| Cleveland State University | | |
| Colorado Technical University | Security Studies | |
| Eastern Washington University | BS in Computer Science | |
| Embry-Riddle Aeronautical University | BS Cyber Intelligence and Security | |
| Fayetteville State University | | |
| Florida International University | | Internet of Things (IoT) Engineering |
| Florida Memorial University | BS in Cybersecurity | Digital Forensics / Cyber-crime |
| Florida Memorial University | Computer Information Systems | Cybersecurity |
| Hofstra University | Computer Science | |
| Illinois State University | | |
| Iona College | BA and BS in Computer Science | |
| Iowa State University | Computer Engineering | |
| Kuwait | | We have computer science program that already has ABET/CAC accreditation. We are interested in adding a Cyber Sciences or related program to this as a new major but we are at the very early stage of thinking about a new program. |
| Lawrence Technological University | | |
| Manhattan college | | |
| Marshall University | Cyber Security | |
| Metropolitan State University | | Cyber Security |
| Minnesota State University Mankato | MS In Information Security and Risk Management | |
| Mississippi State University | Cyber Security and Operations | Cyber Security and Operations |
| Mississippi State University | Information Assurance Certificate Program | |
| MIT | | |
| New Jersey Institute of Technology | | |
| New York Institute of Technology | Information Technology | |
| Northern Arizona University | EE and/or CS | |
| Norwich University | BS Computer Science | |
| old dominion university | | |
| Oregon Institute of Technology | Cybersecurity | |
| Pace University | Information Technology | |
| Princess Sumaya University for Technology (PSUT) | Information Systems Security and Digital Criminology | Networks and Information Security Engineering |
| Purdue | Department of Computer & Information Technology | |
| Radford University | B.S in Computer Science w/ undergraduate certificate in information security | B.S in Computer Science and Security |
| Regis University | | |
| Slippery Rock University | | Computing - Cybersecurity Computing - Security |

| | | |
|--|--|--|
| SMU | Computer Security | Cyber Science |
| Southeast Missouri State University | Cybersecurity | |
| Southern Illinois University Edwardsville | | Information Assurance |
| Southern Utah University | Masters of Science in Cyber Security and Information Assurance | |
| Stevens Institute of Technology | B.S. in Cybersecurity | |
| SUNY Polytechnic Institute | Network and Computer Security | |
| Syracuse University | | |
| Texas A&M University - Corpus Christi | Cyber Security & Infrastructure | |
| Texas Tech | Computer Science | |
| The Citadel | BS in Computer Science with a minor in Cybersecurity | |
| The University of Alabama | | |
| The University of Memphis | | B.S. in Computer Science with concentration in Cyber Security |
| The University of Texas at San Antonio | BBA in Cyber Security | BA in Cyber Security |
| UMBC | Computer Science, Information Systems, Cyber Security | |
| United Arab Emirates | Information Security | |
| United States Air Force Academy | Computer and Network Security | |
| United States Naval Academy | Cyber Operations | |
| Universidad Anahuac | Systems Engineering | |
| Universidad Politécnica de Madrid | | |
| University of Alabama at Birmingham | BA in Computer and Information Sciences | |
| University of Alabama at Birmingham | BS in Digital Forensics | |
| University of Arkansas at Little Rock | | BS in Cybersecurity (Engineering, Management & Policy) |
| University of Central Arkansas | | |
| University of Delaware | Computer Engineering | |
| University of Maine | | bachelor's degree in cyber security |
| University of Maryland Eastern Shore | Cybersecurity Engineering Technology | |
| University of Missouri-Kansas City | | |
| University of Nevada Las Vegas | | |
| University of North Dakota | Computer Science | Cyber Science |
| University of Oklahoma | | |
| University of Pennsylvania | | |
| University of Pittsburgh | Cybersecurity | |
| University of San Diego | MS Cyber Security (BS being planned) | BS Cyber Security |
| University of South Alabama | B.S. in Cyber Assurance | |

| | | |
|--|--|---|
| University of Southern California | | |
| University of Tennessee | Cybersecurity Minor | |
| University of Texas at El Paso | Computer Science | |
| University of Texas of the Permian Basin | | |
| University of Virginia | | |
| University of Virginia | | Cyber Physical System Design and Security |
| University of West Florida | Cybersecurity | |
| University of West Georgia | | |
| University of Wyoming | | |
| Utah Valley University | | |
| Utah Valley University | Cyber Security, Graduate Certificate | Master of Science, Cybersecurity |
| Vietnam | | Information security |
| Wentworth Institute of Technology | Computer Networking | |
| West Virginia University | | |
| Western Michigan University | | Secure Information Technology |
| Western Washington University | BS Computer and Information Systems Security | |

Program Name – Frequency of Occurrence

The following tables illustrate the normalized frequency of occurrence for the program name. Normalization was limited to spellings and word spacing, i.e., “Cybersecurity” and “Cyber security” normalized to Cyber Security).

Seven programs (existing and contemplated) had “engineering” within the program name.

All Programs (Existing & Contemplated) = 74

| (Normalized) Program Name | Count | |
|--|--------------|----|
| Cyber Security | 18 | 27 |
| Cyber Security and Operations | 2 | |
| Cyber Assurance | 1 | |
| Cyber Intelligence and Security | 1 | |
| Cyber Operations | 1 | |
| Cyber Science | 1 | |
| Cyber Security and Information Assurance | 1 | |
| Cyber Security and Infrastructure | 1 | |
| Cyber Security Engineering Technology | 1 | |
| Digital Forensics / Cyber-crime | 3 | |
| Computer Engineering | 2 | |
| Computer Science | 14 | |
| Computer and Information Sciences | 1 | 9 |
| Computer and Information Systems Security | 1 | |
| Computer and Network Security | 1 | |
| Computer Information Systems | 1 | |
| Computer Networking | 1 | |
| Computer Science and Security | 1 | |
| Computer Security | 1 | |
| Computing Cyber Security | 1 | |
| Computing Security | 1 | |
| Electrical Engineering and/or Computer Science | 1 | |
| Information Assurance | 2 | 4 |
| Information Assurance & Security | 2 | |
| Information Security | 1 | 9 |
| Information Security and Risk Management | 1 | |
| Information Systems | 1 | |
| Information Systems Security and Digital Criminology | 1 | |
| Information Technology and Security | 1 | |
| Information Technology | 4 | |
| Internet of Things (IoT) Engineering | 1 | |
| Network and Computer Security | 1 | 2 |
| Network and Information Security Engineering | 1 | |
| Security Studies | 1 | |
| Systems Engineering | 1 | |

Existing Programs = 58

| (Normalized) Program Name | Count | |
|--|--------------|----|
| Cyber Security | 14 | 21 |
| Cyber Assurance | 1 | |
| Cyber Intelligence and Security | 1 | |
| Cyber Operations | 1 | |
| Cyber Security and Infrastructure | 1 | |
| Cyber Security and Information Assurance | 1 | |
| Cyber Security and Operations | 1 | |
| Cyber Security Engineering Technology | 1 | |
| Computer Engineering | 2 | |
| Digital Forensics | 2 | |
| Computer Science | 12 | |
| Computer and Information Sciences | 1 | 6 |
| Computer and Information Systems Security | 1 | |
| Computer and Network Security | 1 | |
| Computer Information Systems | 1 | |
| Computer Networking | 1 | |
| Computer Security | 1 | |
| Electrical Engineering and/or Computer Science | 1 | |
| Information Assurance & Security | 1 | 2 |
| Information Assurance | 1 | |
| Information Security | 1 | 9 |
| Information Security and Risk Management | 1 | |
| Information Systems | 1 | |
| Information Systems Security and Digital Criminology | 1 | |
| Information Technology and Security | 1 | |
| Information Technology | 4 | |
| Network and Computer Security | 1 | |
| Security Studies | 1 | |
| Systems Engineering | 1 | |

Contemplated Programs = 16

| (Normalized) Program Name | Count | |
|--|-------|---|
| Cyber Security | 4 | 6 |
| Cyber Science | 1 | |
| Cyber Security and Operations | 1 | |
| Computer Science | 2 | |
| Computer Science and Security | 1 | 3 |
| Computing Cyber Security | 1 | |
| Computing Security | 1 | |
| Digital Forensics / Cyber-crime | 1 | |
| Information Assurance & Security | 1 | 2 |
| Information Assurance | 1 | |
| Internet of Things (IoT) Engineering | 1 | |
| Network and Information Security Engineering | 1 | |

Programs with Interest in “Cyber Sciences”

The following table summarizes the interest in “cyber sciences” program. Several institutions observed a strong interest in “piloting” accreditation criteria. An institution may have answered in more than once category, representing the state of more than one program.

| Program State | ABET Accredited | Count | Strong Pilot Interest |
|--|------------------------|--------------|------------------------------|
| Existing Program | Yes | 20 | 12 |
| Existing Program | No | 38 | 19 |
| | Sub Total: | 58 | 31 |
| | | | |
| Contemplated Future Programs | -na- | 27 | 2 |
| Likely to reassess interest in a “Cyber” program prior to the '19-20 academic year | | 28 | |
| Grand Total | | 113 | 33 |

Existing Interested Programs – ABET Accredited = 20

| Institution | Program Name | 1st Reasonable Accreditation Visit | Strong Pilot Interest | Currently ABET Accredited |
|-------------------------------|--|---|------------------------------|---|
| United States Naval Academy | Cyber Operations | Fall 2016 | y | Program is currently seeking accreditation. |
| University of North Dakota | Computer Science | Fall 2017 | y | Yes |
| Capitol Technology University | Cyber Security | Fall 2017 | y | Yes |
| Arizona State University | Information Technology | Fall 2017 | y | Yes |
| Capella University | BSIT/ Information Assurance & Security | Fall 2017 | y | Yes |
| Radford University | B.S in Computer Science w/ undergraduate certificate in information security | Fall 2017 | y | Yes |
| Iowa State University | Computer Engineering | Fall 2018 | y | Yes |
| University of Delaware | Computer Engineering | Fall 2018 | y | Yes |
| The Citadel | BS in Computer Science with a | Fall 2018 | | Yes |

| | | | | |
|--|---|------------|----|---|
| | minor in Cybersecurity | | | |
| Purdue | Department of Computer & Information Technology | Fall 2019 | y | Yes |
| Iona College | BA and BS in Computer Science | Fall 2019 | y | Yes |
| California State University, Fullerton | Computer Science | Fall 2019 | | Yes |
| University of Texas at El Paso | Computer Science | Fall 2019 | | Yes |
| Hofstra University | Computer Science | Fall 2019 | y | Program is currently seeking accreditation. |
| Arkansas Tech University | BS in Information Technology | Fall 2019 | | Program is currently seeking accreditation. |
| Wentworth Institute of Technology | Computer Networking | After 2019 | | Yes |
| Texas Tech | Computer Science | After 2019 | | Yes |
| Florida Memorial University | Computer Information Systems | After 2019 | | Yes |
| Northern Arizona University | EE and/or CS | After 2019 | | Yes |
| SMU | Computer Security | no answer | y | Yes |
| Total = 20 | | | 12 | |

Existing Interested Programs – Not ABET accredited = 38

| Institution | Program Name | 1st Reasonable Accreditation Visit | Strong Pilot Interest |
|--|--|------------------------------------|-----------------------|
| United States Air Force Academy | Computer and Network Security | Fall 2016 | y |
| Minnesota State University Mankato | MS In Information Security and Risk Management | Fall 2017 | y |
| Princess Sumaya University for Technology (PSUT) | Information Systems Security and Digital Criminology | Fall 2017 | y |
| Baker College | Information Technology and Security | Fall 2017 | y |
| SUNY Polytechnic Institute | Network and Computer Security | Fall 2017 | y |
| The University of Texas at San Antonio | BBA in Cyber Security | Fall 2017 | y |
| Southeast Missouri State University | Cybersecurity | Fall 2017 | y |
| Southeast Missouri State University | Cybersecurity | Fall 2017 | |
| Cal State San Bernardino | Cyber Security | Fall 2017 | |
| University of Tennessee | Cybersecurity Minor | Fall 2017 | |
| Colorado Technical University | Security Studies | Fall 2017 | |
| University of Alabama at Birmingham | BS in Digital Forensics | Fall 2018 | y |
| Texas A&M University - Corpus Christi | Cyber Security & Infrastructure | Fall 2018 | y |
| Embry-Riddle Aeronautical University | BS Cyber Intelligence and Security | Fall 2018 | y |
| University of West Florida | Cybersecurity | Fall 2018 | y |
| Oregon Institute of Technology | Cybersecurity | Fall 2018 | y |
| Utah Valley University | Cyber Security, Graduate Certificate | Fall 2018 | y |
| University of Alabama at Birmingham | BA in Computer and Information Sciences | Fall 2018 | |
| Mississippi State University | Information Assurance Certificate Program | Fall 2018 | |
| Southern Utah University | Masters of Science in Cyber Security and Information Assurance | Fall 2018 | |
| Universidad Anahuac | Systems Engineering | Fall 2018 | |
| Western Washington University | BS Computer and Information Systems Security | Fall 2018 | |
| Stevens Institute of Technology | B.S. in Cybersecurity | Fall 2018 | |

| | | | |
|---------------------------------------|--------------------------------------|------------|----|
| Capitol Technology University | BS, MS and DSc in cyber Security | Fall 2018 | |
| Pace University | Information Technology | Fall 2019 | y |
| Marshall University | Cyber Security | Fall 2019 | y |
| Bloomsburg | digital forensics | Fall 2019 | y |
| Florida Memorial University | BS in Cybersecurity | Fall 2019 | |
| University of Maryland Eastern Shore | Cybersecurity Engineering Technology | Fall 2019 | |
| Bloomsburg University | Digital Forensics | Fall 2019 | |
| Bloomsburg University of Pennsylvania | Digital Forensics | Fall 2019 | |
| Eastern Washington University | BS in Computer Science | Fall 2019 | |
| University of South Alabama | B.S. in Cyber Assurance | After 2019 | y |
| United Arab Emirates | Information Security | After 2019 | y |
| University of San Diego | MS Cyber Security (BS being planned) | After 2019 | y |
| New York Institute of Technology | Information Technology | After 2019 | |
| University of Pittsburgh | Cybersecurity | After 2019 | |
| Norwich University | BS Computer Science | After 2019 | |
| Total = 38 | | | 19 |

Future Program with Contemplated Name = 27

These institutions indicated a potential future program which may be interested in a “Cyber Science” accreditation within the next four years.

| Institution | Program Name | 1st Reasonable Accreditation Visit | Strong Pilot Interest |
|--|--|------------------------------------|-----------------------|
| The University of Memphis | B.S. in Computer Science with concentration in Cyber Security | Fall 2017 | |
| Princess Sumaya University for Technology (PSUT) | Networks and Information Security Engineering | Fall 2017 | |
| Capella University | Master of Science -Information Assurance & Security. Specialization so in either Digital Forensics, Network Defense or Healthcare Security | Fall 2017 | |
| University of Maine | bachelor's degree in cyber security | Fall 2018 | |
| University of Arkansas at Little Rock | BS in Cybersecurity (Engineering, Management & Policy) | Fall 2018 | |
| Florida International University | Internet of Things (IoT) Engineering | Fall 2018 | |
| Capitol Technology University | Computer Science with certificate in secure software design | Fall 2018 | |
| Radford University | B.S in Computer Science and Security | Fall 2018 | |
| Utah Valley University | Master of Science, Cybersecurity | Fall 2018 | |
| Mississippi State University | Cyber Security and Operations | Fall 2019 | |
| Slippery Rock University | Computing - Cybersecurity Computing - Security | Fall 2019 | |
| University of Virginia | Cyber Physical System Design and Security | Fall 2019 | |
| University of Maryland Eastern Shore | | Fall 2019 | |
| The University of Texas at San Antonio | BA in Cyber Security | Fall 2019 | |
| Florida Memorial University | Cybersecurity | Fall 2019 | |
| Vietnam | Information security | After 2019 | y |
| Florida Memorial University | Digital Forensics / Cyber-crime | After 2019 | y |
| California State University, Fullerton | Computer Security | After 2019 | |
| Regis University | | After 2019 | |
| Metropolitan State University | Cyber Security | After 2019 | |
| Western Michigan University | Secure Information Technology | After 2019 | |

| | | | |
|---|--|------------|---|
| Southern Illinois University Edwardsville | Information Assurance | After 2019 | |
| Kuwait | We have computer science program that already has ABET/CAC accreditation. We are interested in adding a Cyber Sciences or related program to this as a new major but we are at the very early stage of thinking about a new program. | After 2019 | |
| SMU | Cyber Science | After 2019 | |
| University of North Dakota | Cyber Science | After 2019 | |
| Arkansas Tech University | BS in Cybersecurity | After 2019 | |
| University of San Diego | BS Cyber Security | After 2019 | |
| Total: 27 | | | 2 |

Anticipate Reassessment of a Future Potential Program = 28

Institutions with no potential future programs identified by name at time of survey, but likely to reassess this position prior to '19-20 academic year.

- Arizona State University
- Baker College
- Bethune-Cookman University
- Bloomsburg University of Pennsylvania
- Cal Poly, San Luis Obispo
- California State University - Long Beach
- Charleston Southern University
- Cleveland State University
- Colorado Technical University
- Embry-Riddle Aeronautical University
- Illinois State University
- Iowa State University
- Marshall University
- Minnesota State University Mankato
- New York Institute of Technology
- old dominion university
- Oregon Institute of Technology
- Pace University
- Purdue
- Syracuse University
- UMBC
- Universidad Politécnica de Madrid
- University of Central Arkansas
- University of Nevada Las Vegas
- University of Southern California
- University of West Florida
- University of West Georgia
- Wentworth Institute of Technology

Appendix

Survey Content

The following section contains the text of the survey

Welcome Screen:

ABET and the Cyber Education Project (CEP) www.cybereducationproject.org are conducting a survey to determine the degree of interest in obtaining ABET accreditation for programs in “Cyber Sciences.”

“Cyber Sciences” is a representative name for programs which include computing-based studies involving technology, people and/or processes to enable “assured operations” in the presence of risks and/or adversaries. “Cyber Science” topics could include basic security taxonomies, secure design, implementation and operation of computing systems, risk management, cyber ethics, policy, governance, law and human behavior. A variety of program names may be used, for example, Cyber Security, Cyber Operations, Security Engineering, Information Assurance and Digital Forensics.

If your institution has a “Cyber Sciences” program of any type or is contemplating the creation of a program, please take the next 5-7 minutes to complete this informational survey.

If you have any questions about the survey, need additional information about CEP or “Cyber Sciences” please read the survey FAQs at <http://cep-public.caps.ua.edu/wp-content/uploads/2016/01/FAQs-for-ABET-Survey-v6.pdf>

Thank you,

Questions:

Q1: My institution is located...

Q2: Address

Q3: Accreditation criteria changes are a multi-year process with involvement by multiple groups, however we look forward to receiving detailed feedback from our constituents. Please insert your name and email address below if we can contact you regarding the submitted survey responses.

Q4: Email Address

Q5: Address

Q6: Country

Q7: Accreditation criteria changes are a multi-year process with involvement by multiple groups, however we look forward to receiving detailed feedback from our constituents. Please insert your name and email address below if we can contact you regarding the submitted survey responses.

Q8: Email Address

Q9: Are there any existing program(s) at your institution that may be interested in a "Cyber Sciences" or related ABET Accreditation within the next four years (academic years '16-'17, '17-'18, '18-'19, '19-'20)? For the purpose of this survey, a program's "Cyber Sciences" topics could include: Basic security taxonomy, concepts, principles & best practices for computing systems with consideration of the physical, software, and human aspects of the computing system. Secure design, implementation, and operation of computing systems with consideration of defensive measures, risk management, cyber ethics, policy, governance, law, and human behavior. Other topics appropriate to the subject and the program.

Q10: What is the name of the existing program at your institution which may be interested in a "Cyber Sciences" or related ABET Accreditation? If you have multiple programs, please complete the next set of questions for one program at a time.

Q11: For this existing program, from your institution's perspective, when is the first reasonable date for the institution's "Cyber Sciences" ABET accreditation visit?

Q12: Is this existing program currently ABET accredited?

Q13: Is there an additional existing program at your institution which may be interested in "Cyber Sciences" or related ABET accreditation.

Q14: Are there any potential future program(s) at your institution that may be interested in a "Cyber Sciences" or related ABET Accreditation within the next four years (academic years '16-'17, '17-'18, '18-'19, '19-'20) ?

Q15: What could be the name of the potential future program at your institution that may be interested in a "Cyber Sciences" or related ABET Accreditation? For the purpose of supporting this survey, a program's "Cyber Sciences" topics may include: Basic security taxonomy, concepts, principles & best practices for computing systems with consideration of the physical, software, and human aspects of the computing system. Secure design, implementation, and operation of computing systems with consideration of defensive measures, risk management, cyber ethics, policy, governance, law, and human behavior. Other topics appropriate to the subject and the program.

Q16: For this potential future program, from your institution's perspective, when is the first reasonable date for the institution's "Cyber Sciences" ABET accreditation visit?

Q17: Is there an additional potential future program at your institution which may be interested in "Cyber Sciences" or related ABET accreditation.

Q18: A possible future step in creation of a "Cyber Sciences" ABET accreditation is a "trial" or "pilot" of an institution visit with a few selected programs. What degree of interest does your institution have in participating in a "trial" or "pilot" conducted in the following academic years?

Survey FAQ – Hosted on CEP web site – Linked from survey

FAQs for ABET Survey to

Determine degree of institutional interest in accreditation of “Cyber Sciences” or related program(s)

Background:

1. What is CEP?

The Cyber Education Project (CEP) at www.cybereducationproject.org is an initiative supported by a diverse group of computing professionals representing academic institutions, professional societies, government, and industry to develop undergraduate curriculum guidelines and a case for accreditation for educational programs in the “Cyber Sciences”.

2. What is “Cyber Sciences”?

For the purpose of this survey, “Cyber Sciences” is a place-holder name for programs which may include computing-based studies involving technology, people, and processes aligned in a way to enable “assured operations” in the presence of risks and/or adversaries. It could involve the creation, operation, analysis, and testing of secure computer systems (including network and communication systems) as well as the study of how to employ operations, reasonable risk taking, and risk mitigations.

3. What are the goals of the CEP committee?

The goals of the CEP include working with ABET, various other organizations and constituencies to:

- 1) Describe the opportunity for creation of ABET accreditation of programs with significant “cyber sciences” content.*
- 2) Sponsor or conduct studies and other activities to determine and provide rationale for development of ABET accreditation criteria*
- 3) Support various committees in their normal processes for creation or maturation of ABET accreditation criteria for “Cyber Sciences”.*

4. How can I learn more about the CEP?

Visit the CEP web site: www.cybereducationproject.org.

5. What is the purpose of the survey?

- To gauge the degree of interest in creation of an ABET accreditation criteria.*
- To identify institutions which have strong interest in reviewing and potentially piloting accreditation criteria.*

Survey Logistics:

6. Who are the recipients of the survey?

The recipients are the institutional points of contact identified in the ABET database for CAC accredited programs.

7. Why did I receive this survey?

You are the listed institutional point of contact in the ABET database for institutions with ABET accredited programs.

8. Who is administering the survey?
This survey is administered by ABET.
9. Who is the sponsor of the survey?
This survey is sponsored by the CEP.
10. When will the survey be conducted?
The survey will start on or about January 25th 2016 and will be open for 4 weeks.
11. I was not a survey recipient, but I want to participate, what should I do?
Take an equivalent survey at the CEP web site. Instructions for taking the equivalent survey will be placed on the CEP Project Artifact page at www.cybereducationproject.org/project-artifacts
12. Is there another survey on this topic?
Yes. For populations not reached by the ABET administered survey, an equivalent survey will be available at the CEP web site.

Survey Results:

13. Who will have access to the information?
ABET (including the EAC and the CAC), CEP, CSAB, and the IEEE Committee for Accreditation Activities (IEEE CEAA).
14. Can others see the results of the survey?
Yes, but only the summary results (without the survey responder's name or contact information) will be publicly available, including on the CEP web site.
15. How will the information be utilized?
Various groups. e.g., CSAB, IEEE CEAA, CAC, EAC, CEP, may use the results to improve their decision making and determination of next steps toward creation of an ABET accreditation criteria. .

Accreditation Considerations:

16. What is the "Cyber Sciences" draft accreditation criteria?
*For the CAC:
The criteria is at pre-draft level, with a proposed "alpha" draft created by the CEP with a next step of consideration by a joint CSAB/CAC criteria committee. The CEP CAC proposed "alpha" draft will be published on the CEP Project Artifact page at www.cybereducationproject.org/project-artifacts following an anticipated presentation in March to the CSAB/CAC. The content is not final and will change as it matures.*
*For the EAC:
The CEP has not produced an "alpha" draft.*

Review by the CSAB/CAC does not inhibit or preclude other societies or organizations from consideration of accreditation aspects of "Cyber Sciences." "Cyber Sciences" is a broad field with aspects in many disciplines and programs, each of which, as appropriate to the discipline or program, may consider "Cyber Sciences". It is viewed that "Cyber

Sciences” field is sufficiently broad that several disciplines and associated accreditation actions could arise to support this field.

17. The “Cyber Sciences” is not relevant to programs I am responding about in the survey, what should I do?

Indicate that you have no interest in participation.

18. What process was used to describe the field and create the draft criteria?

The CEP sponsored a Learning Outcomes committee surveyed, assessed, researched, sought input in multiple venues from multiple constituents. Based on their work, a collection of learning outcomes were identified and grouped into topic areas. This information was the primary input used by the CEP accreditation committee in the creation of an “alpha” draft criteria proposal. The CEP accreditation committee met multiple times to discuss and formed the draft text.

19. Are there other interested groups?

Yes

The CSAB/CAC has a committee to bring accreditation criteria changes through the formal ABET accreditation creation/modification process for the CAC. It is contemplated that the draft “Cyber Sciences” criteria will become a topic of discussion in 2016.

The ACM/IEEE-CS/CEP has formed a committee to focus on curriculum and student outcomes.

The IEEE CEAA has a committee to bring accreditation criteria changes through the formal ABET accreditation creation/modification process for the EAC (in the context of the IEEE).

There may be other interested groups.

20. When will this process finish?

Accreditation criteria changes are a multi-year process with involvement by multiple groups. This effort is toward the beginning of the process. Schedule clarity is anticipated in 2016, as the CAC, EAC, ABET, and other groups continue to be engaged and the results of this survey are analyzed.

21. I don’t agree with the term “Cyber Sciences”.

For the purpose of this survey, “Cyber Sciences” is a place-holder name for programs. This survey is not collecting data on program names, or suggesting program names, or obtaining feedback on the place-holder name “Cyber Sciences”.

22. What will be the name used by ABET for the new program criteria, if not “Cyber Sciences”?

This is not known. Program name identification and linkage with criteria is accomplished within the ABET accreditation criteria creation/modification processes. It is also plausible that there could be more than one program name associated with “Cyber Sciences” concepts or topics.

23. Will the name used by ABET for programs accredited with a focus on something related to “Cyber Sciences” be required to have the term “cyber” within the name?

This is not known. Program name identification and linkage with criteria is accomplished within the ABET accreditation criteria creation/modification processes. However, it is contemplated that program names will not be have to be of the form

“Cyber xxxx”. A contemplated program name, for example, could be Information Assurance or Network Security.

FAQ Considerations:

24. One of the FAQs is wrong, what can I do?

Send an email to cepaccreditationcochair.steven@gmail.com with subject starting with “FAQ Question - Update” with the correction.

25. I have a suggestion for new “question” or the answer to an existing question can be improved, what do I do?

Send your new “question” and its answer if known, or the improved answer to an existing question to cepaccreditationcochair.steven@gmail.com with subject starting with “FAQ Question - New”.

End of Document