



# FALL 2018 ABET UPDATE

ADVISORY BOARD MEETING

NOV. 29 2018



# QUICK OUTLINE

- ABET Accreditation Committee
- ABET Timeline
- Milestones Completed
- Advisory Board Review and Feedback

# ABET ACCREDITATION COMMITTEE

- Michael Soltys
- Jason Isaacs
- Sami Al-Salman
- Brian Thoms



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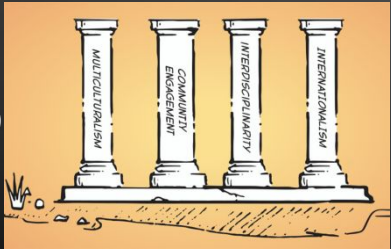


# TO DATE

- Spring 2018

- Attended ABET Symposium
- Establish Mission Statement

- Computer Science permeates every aspect of human endeavor, and thus it is a truly interdisciplinary field. CS is fast growing, and its graduates are in demand in our community and nation-wide. We respond to this demand by teaching our students with a “hands-on” and “problem-solving” approach, and we strive to give our students a strong grounding in the fundamental science of computing, as well as the necessary technical knowledge to succeed in the job market. As the field is fast growing, we realize that we serve our students best by being top experts in our respective research fields. Thus we aim to embody the teacher-scholar model in our academic lives.





## TO DATE (CONT'D)

- Fall 2018
  - Department Adoption of ABET Student Learning Outcomes (SLOs).
  - Created Program Educational Objectives (PEOs) for each major.
    - *PEOs are based on the needs of the program's constituencies and are expressed in broad statements that describe what graduates are expected to attain within a few years of graduation.*
  - Performed an initial Course / SLO Mapping and Rubric Construction; Goal to have rubrics constructed and mapped for all SLOs by Fall 2019.





# NEXT STEPS

- Fall 2018
  - Advisory Board Review and feedback of PEOs and SLOs.
  - Data Collection; Initial data collection will begin in Fall 2018, measuring SLOs 1, 2, 3, 5
- Spring 2018
  - Begin Cycle of:
    - Mapping SLOs to courses
    - Creating rubrics to measure SLOs
    - Collect Data
    - Evaluate

## ABET accreditation

### About ABET

Accreditation Board for Engineering and Technology (ABET), is a non-governmental organization that accredits post-secondary education programs in applied and natural science, "computing, engineering, and engineering technology".

From ABET.org, 3,709 programs are accredited, distributed over 752 universities and colleges in 30 countries.

### ABET Value (from ABET.org)

ABET accreditation is proof that a collegiate program has met standards essential to produce graduates ready to enter the critical fields of applied science, computing, engineering, and engineering technology. Graduates from an ABET-accredited program have a solid educational foundation and are capable of leading the way in innovation, emerging technologies, and in anticipating the welfare and safety needs of the public.

### Getting Accredited

ABET accreditation is the culmination of a practice of ongoing self-assessment and continuous improvement, which assures confidence that ABET-accredited programs are meeting the needs of their students, preparing graduates to enter their careers, and responsive to the needs of the professions and the world. This process has to be initiated by the institution.

| SLO3: Communicate effectively in a variety of professional contexts. |  |   |   |   |
|--|--|---|---|---|
| Course: <i>COMU299 Capstone Project</i>                              |  |   |   |   |
| SLO3:  | SLO3: Communicate effectively in a variety of professional contexts.   |   |   |   |
| Performance Indicator  | SLO3: Communicate effectively in a variety of professional contexts.   |   |   |   |
| PI #11   | Course: <i>COMU299 Capstone Project</i>  |   |   |   |
| Performance Indicator  | SLO3: Communicate effectively in a variety of professional contexts.   |   |   |   |
| PI #11   | 1=Unsatisfactory   | 2=Developing  | 3=Satisfactory  | 4=Exemplary   |
| PI #11: communication and informative delivery                       | Presentation of project goals, methods and solutions lack clarity or are difficult to follow; most technical terms not used appropriately.         | Presentation of project goals, methods and solutions are not clear or are difficult to follow; some technical terms not used appropriately.   | Presentation of project goals, methods and solutions are presented clearly; most technical terms used appropriately.  | Presentation of goals, methods and solutions are presented clearly; all technical terms used appropriately.   |
| PI #11: communication and informative delivery                       | Presenters lack enthusiasm and fail to cover key project topics. Engagement with audience members is minimal and little to no eye contact is made. | Presenters show some enthusiasm and cover essential project topics. Engagement with audience members is minimal and some eye contact is made. | Presenters are enthusiastic about their project and cover key project topics. Engagement with audience members is evident and frequent eye contact is made. | Presenters are fully engaged with the audience, cover key project topics, and discuss their work within a real-world context. Engagement with audience members is evident and frequent eye contact is made. |
| PI #11: communication and informative delivery                       | Project summary presentation on a comprehensive 30% of all project   |   |   |   |
| PI #11: communication and informative delivery                       | Project presentation and/or demonstration during Capstone Showcase:  |   |   |   |