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# Exploring an Information Literacy Approach to Standards Education

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# Exploring an Information Literacy Approach to Standards Education

Prof. Margaret Phillips
Society of Standards Professionals (SES) webinar | May 20, 2020

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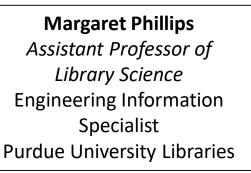
#### Overview

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## Research Team







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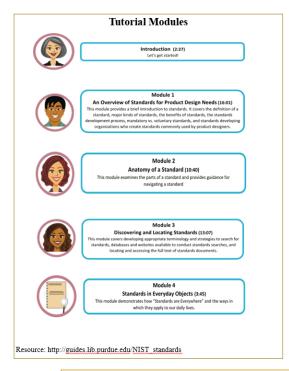
# Background

- Purdue Libraries & School of Information Studies MET Program partnership
- MET 102 CAD in the Enterprise standards assignment
- Faculty discomfort
  - 49% of survey respondents reported "lack of faculty expertise" as an impediment to teaching about standards (Khan, Karim, & McLain, 2013)

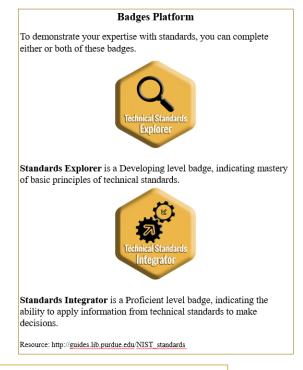
# Project Objectives

- Develop an open-access, introductory-level, interactive online standards education program
- Provide micro-credentials for students to demonstrate standards competence to potential employers, etc.

# Project Outcomes







- ~750 undergraduate Purdue engineering technology and materials engineering students reached since Fall 2017; additional engineering faculty and students (~130) at the University of Buffalo
- 4,500 Project website views (as of 5/4/2020) <a href="https://guides.lib.purdue.edu/NIST\_standards">https://guides.lib.purdue.edu/NIST\_standards</a>
- 79 students submitted materials to earn badges; 25 badges awarded to date
- Three workshops conducted on project materials: 79 attendees from 35 institutions



### Where to Learn More

- Project website: <a href="http://guides.lib.purdue.edu/NIST\_standards">http://guides.lib.purdue.edu/NIST\_standards</a>
- Publications related to the project:
  - Phillips, M. (2019). Standards collections: Considerations for the future. Collection Management, 44(2-4), pp 334-347. https://doi.org/10.1080/01462679.2018.1562396
  - McPherson, P., & Phillips, M., & Reiter, K. (2019). Integrating technical standards into ET curricula to meet ABET standards and industry needs. Paper presented at the 2019 American Society for Engineering Education (ASEE) Conference for Industry and Education Collaboration (CIEC), New Orleans, LA. https://peer.asee.org/31507
  - Phillips, M., Fosmire, M., & McPherson, P. (2018, May/June). Standards are everywhere: A freely available Introductory online educational program on standardization for product Development. *Standards Engineering*, 70(3), 1-6. <a href="https://docs.lib.purdue.edu/lib\_fsdocs/201">https://docs.lib.purdue.edu/lib\_fsdocs/201</a>

### References

Khan, A. S., & Karim, A., & McClain, J. A. (2013, June), *The State of the Use of Standards in Engineering and Technology Education*. Paper presented at 2013 ASEE Annual Conference & Exposition, Atlanta, Georgia. <a href="https://peer.asee.org/22618">https://peer.asee.org/22618</a>