



# SYSTEMS EDUCATION FOR ALL ENGINEERS

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ASEE 2015 WORKSHOPS  
SEATTLE, WA  
JUNE 14, 2015

*Seating limited, tickets required, please register early\**

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## INTEGRATING SYSTEMS COMPETENCIES INTO THE CURRICULUM OF ANY ENGINEERING DISCIPLINE U213C, 9AM-NOON, WSCC ROOM 602

This is a hands-on workshop to review how we expose engineering students to systems competencies such as these to enable them to achieve a higher level of technical competence within their discipline:

1. Describing the target of innovation as an interconnection of subsystems but also in terms of the target's interaction with the larger system that surrounds it;
  2. Applying a system stakeholder view of value, trade-offs, and optimization;
  3. Understanding system's interactions and states (modes);
  4. Specifying system technical requirements;
  5. Creating and analyzing high level design;
  6. Assessing solution feasibility, consistency, and completeness; and
  7. Performing system failure mode and risk analysis.
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## GROUP LUNCH

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## INTEGRATING SYSTEMS ENGINEERING INTO ENGINEERING EDUCATION

U448, 1PM - 4PM, WSCC ROOM 603

This workshop reports on and extends work from the May International Council on Systems Engineering (INCOSE) Spring Academic Forum that considers:

- How can we better describe the value of systems knowledge in engineering education, for students, employers and educators?
- What is the best way to build on existing successes to create useful materials, products and recommendations to help deliver this value?
- Is the Systems Engineering knowledge base sufficient to support these outputs?

Recommendations, curriculum artifacts, best practices, lessons learned, and ongoing work will be presented and built upon during this workshop.

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**\*Register for both ½ day workshops as part of ASEE 2015 conference registration.**

Free ticket with registration: <http://www.asee.org/conferences-and-events/conferences/annual-conference>