



SYSTEMS EDUCATION FOR ALL ENGINEERS

ASEE 2015 WORKSHOPS
SEATTLE, WA
JUNE 14, 2015

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

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.

Register for both 1/2 day workshops as part of ASEE 2015 conference registration.

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