

Teaching Systems Engineering to Undergraduates; Experiences and Considerations

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Abstract. Undergraduates need a teaching style that fits their limited experience. Especially in systems engineering this is an issue, since systems engineering connects to so many different stakeholders with so many different concerns while the students have experienced only thus far only a few of these concerns and met only few stakeholders. Students need to become aware of the inherent ambiguities, uncertainties, and unknowns in the systems world, in contrast to the focused world of mono-disciplinary engineering. There is a difference between the more traditional engineering disciplines (mechanical, electrical, etc.) and the upcoming and broader disciplines like industrial design engineering and systems engineering itself.