

# Teaching and Training Using Immersive Tech

Spring 2022 | SYSE 580A5

5:15 - 8:00 p.m. Tuesday

Dr. Marie Vans

Course prerequisites: STAT 301 or equivalent or MECH 231 (Engineering Experimentation)

**Dr. Marie Vans** has academic and industry experience developing virtual reality simulations for education, product introduction, and analytics. Dr. Vans was at HP Labs for more than 20 years and is the author of 55 publications and 35 U.S. granted patents.

## Design and implement training and educational systems using AR/VR.

This course is important for systems engineers to introduce new tools to design, test, and train systems. AR/VR as a tool for collaborative education and training is a new concept and is just now being fully understood. AR/VR is an invaluable platform to use when building or augmenting systems.

Students completing this course will be able to:

- Develop safety protocols, test plans, inclusive design, learning measurements and assessments
- Interpret learning models by developing curricula and designing experiences based on learning models
- Implement student designed learning/training experiences

Topics covered in this course:

- Systems development lifecycle
- AR/VR use cases and development processes
- Developing curricula in social VR worlds
- Evaluation of state-of-the-art training platforms
- Developing safety protocols, test plans, inclusive design



**Use AR/VR  
to enhance  
systems training  
and educational  
experiences.**

**Questions?**

**Dr. Marie Vans  
Associate Professor**

Department of Systems Engineering

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**We recommend registering for Spring  
2022 classes by January 11.**



**SYSTEMS ENGINEERING**  
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