

Preparing Engineering Students for Professional Practice

What you can do to help!

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What Employers Want to See in Engineering Graduates

- Critical Thinking, Analysis and Validation
- Resourcefulness, Initiative & Creativity
- Project Management & Economics
- Technical Communication
- Basic Technical Skills

The Bottom line: Business Wants Technical Leadership

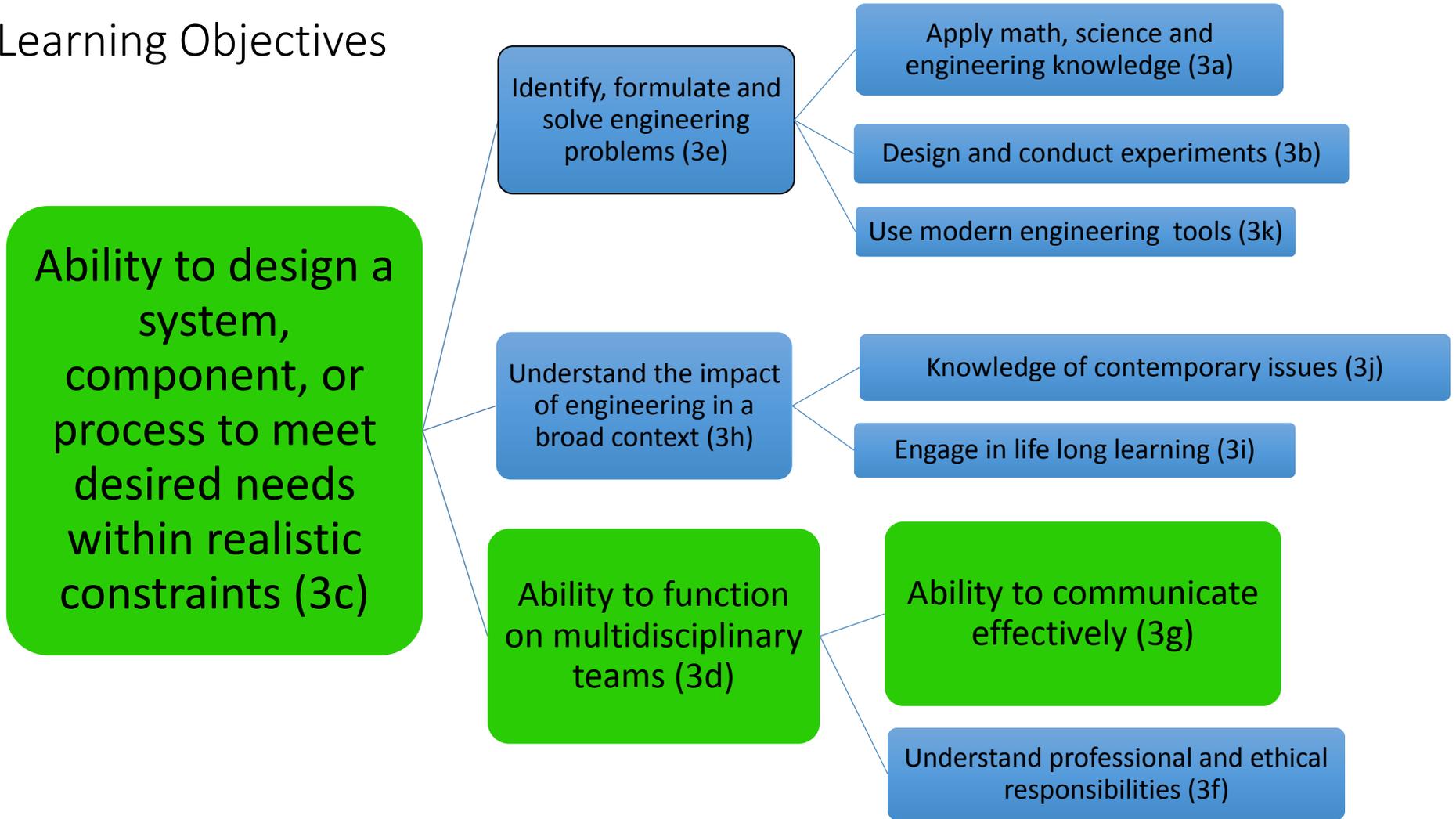
The O.T. Swanson Multidisciplinary Design Laboratory



Mission: To provide clinical “real-world” experiences for undergraduate students that build confidence and teach integration of discipline-specific knowledge with practice on challenging multidisciplinary design projects.



ABET 2000 Learning Objectives



ABET 2000 → Opening Pandora's Box

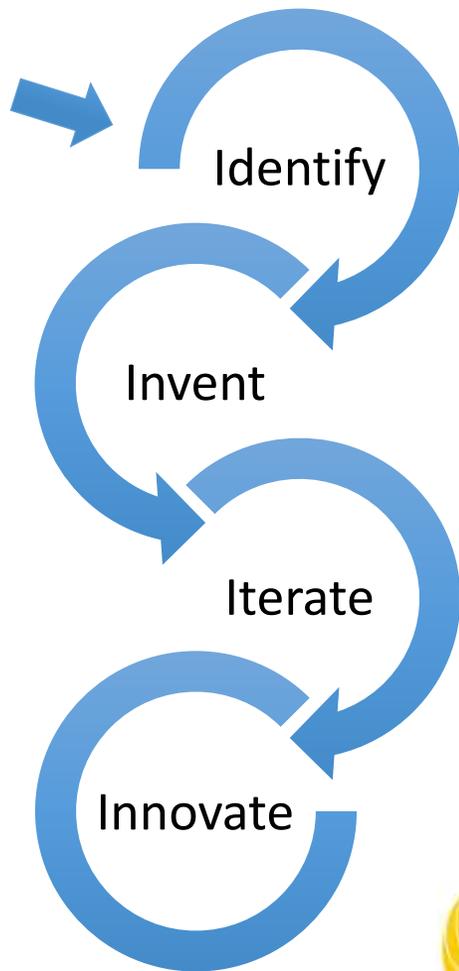
I hear and I forget.
I see and I remember.
I do and I understand.

Confucius, circa 550 BC

Capstone → A window on the curriculum

UCF Foundations for Creating Multidisciplinary Partnerships

- Societal Needs
- Industry Sponsors
- Entrepreneurs



Opportunities for Business → Engage America's Partnership University

- Collaborate with UCF students, faculty and staff
- Capitalize on the energy and enthusiasm of UCF senior level MAE students
- Solve a challenging problem of value to you and your organization
 - Evaluate high risk ideas in a low risk environment → Own the IP!
 - Student teams guided by experienced engineering faculty and staff
 - Receive project results that include:
 - Requirements Definition and Competitor Benchmarking
 - Technology Studies and Feasibility Analysis
 - Concept Generation and Evaluation of Concept Alternatives
 - Design Modeling, Analysis and Simulation
 - Professionally Built Prototypes for Test and Evaluation
- Get acquainted with some of the best and brightest engineering students for potential recruitment
- Build long lasting relationships with UCF and the MAE department

Support a new style of engineering education that focuses on real world results!