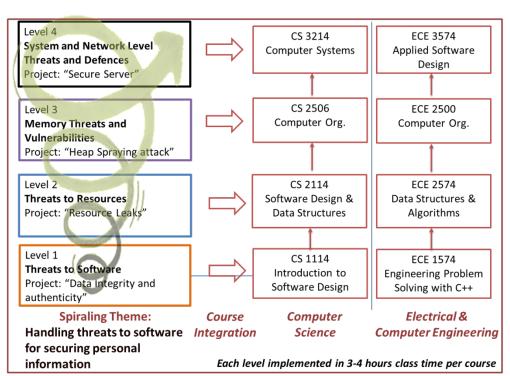
# Development and Analysis of a Spiral Theory-based Cybersecurity Curriculum



#### **Solution:**

- Development and implementation of a unique curriculum delivery model in cybersecurity into Computer Science and Computer Engineering curricula using Jerome Bruner's spiral curriculum theory
- Engineering education research to evaluate students' learning experiences

# **Challenge:**

Enhance cybersecurity learning experiences of students at Virginia Tech's large engineering program

## **Scientific Impact:**

- Research findings regarding how students learn and get motivated about cybersecurity concept
- Curriculum development/implementation experiences to infuse cybersecurity into a large engineering program

## **Broader Impact:**

- Enhance recruitment of informed undergraduates into the CyberCorps and VT-Scholarship for Service program at VT
- Increase the number of graduates who accept employment in the cybersecurity field or pursue graduate studies in cybersecurity
- An education theory based curriculum model for cybersecurity education

