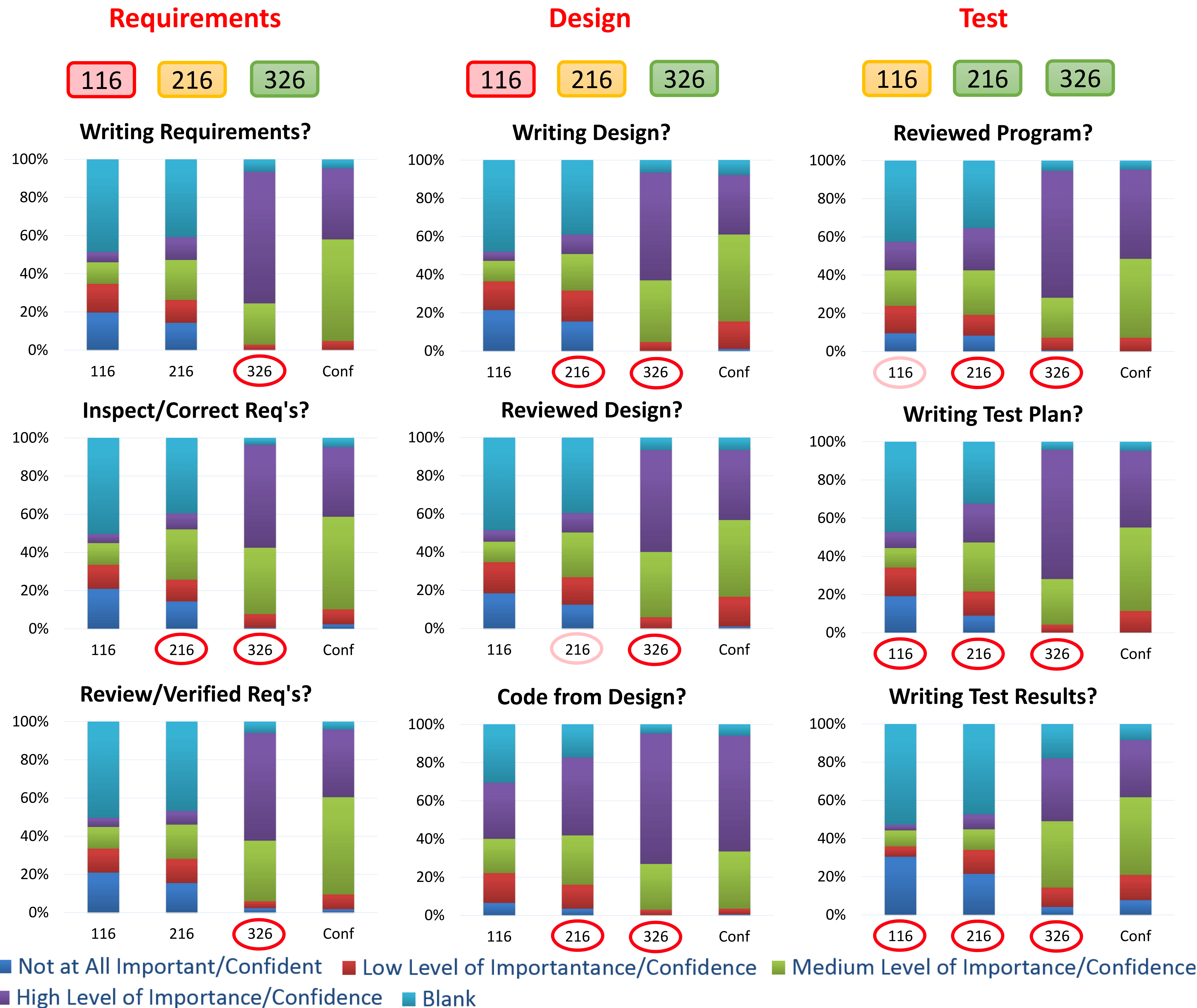
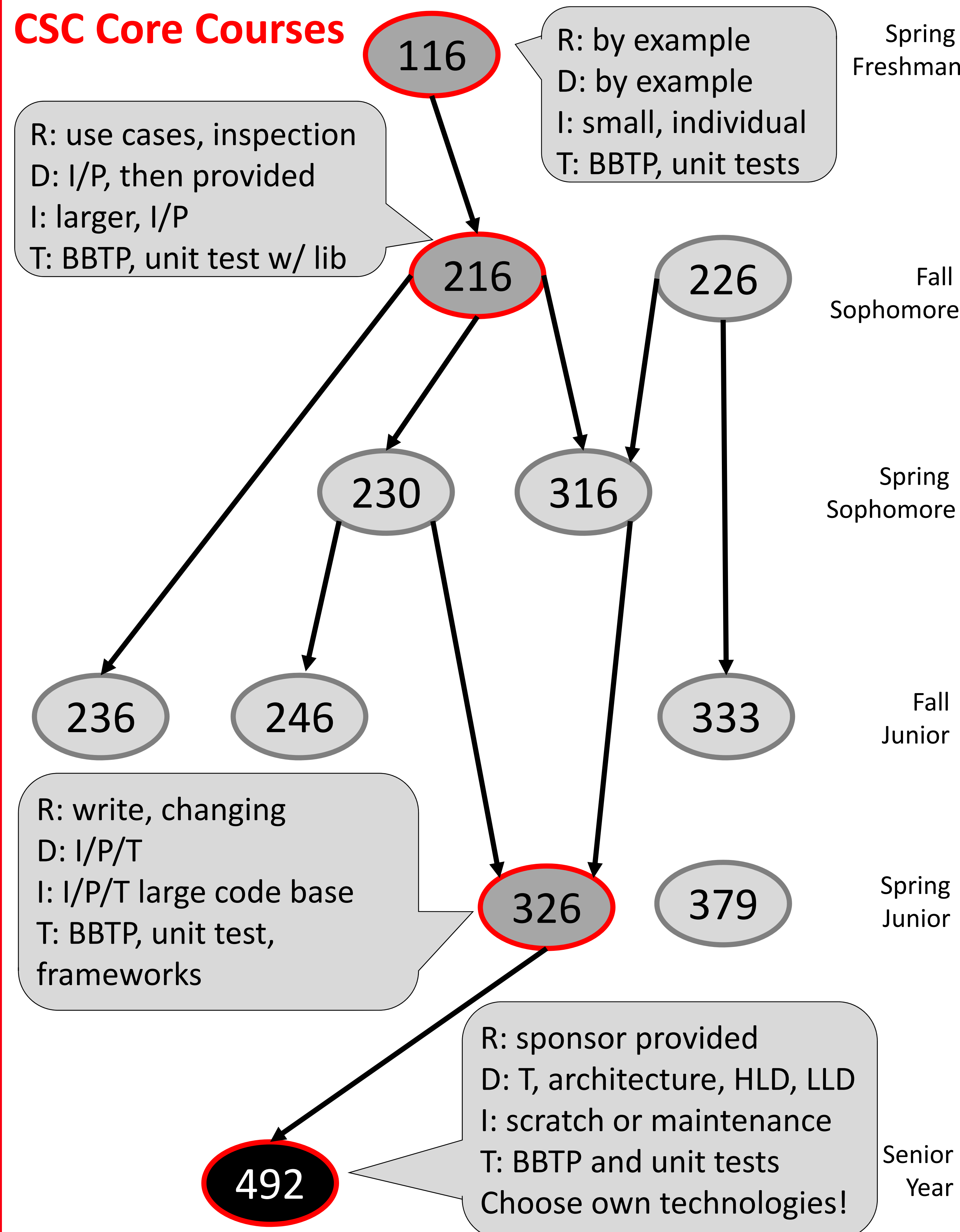


## Overview

- **Goal:** Incorporate communication learning outcomes into CSC undergraduate core
- CSC Faculty are domain experts on CSC communication genres
- **Legitimate Peripheral Participation**, where students engage with legitimate activities, where appropriate, increases learning
  - Appropriate audience and genres for technical outcome
- **Situational Complexity:**
  - Longer responses
  - More complicated responses
  - Responses in multiple genres
  - A greater degree of independence on the part of students
  - More students contribute to completion of the assignment

## CSC Core Courses



M. Carter, R. Fornaro, S. Heckman, and M. Heil, "Creating a Progression of Writing, Speaking, & Teaming Learning Outcomes in Undergraduate Computer Science/Software Engineering Curricula," World Engineering Education Forum (WEEF), Buenos Aires, Argentina, October 15-18, 2012.  
 M. Carter, R. Fornaro, S. Heckman, and M. Heil, "Developing a Learning Progression that Integrates Communication in an Undergraduate CS/SE Curriculum," NCSU Technical Report, TR-2012-7, May 25, 2012.  
 Woodruff, S. B., Li, YI., & Ryan, E. e. (2014). *Evaluation of CPATH II: Incorporating Communication Outcomes Into the Computer Science Curriculum Technical Report of the Evaluation of Student Artifacts*, March 2014. Oxford, OH: Miami University, Ohio's Evaluation & Assessment Center for Mathematics and Science Education IRB #1749 & #2766  
 Funded by NSF Grant #0939081 Collaborative Research: CPATH II: Incorporating Communication Outcomes into the Computer Science Curriculum