



# **DIRECTED RESEARCH DATA SET: INTRO AND PLANS**

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# What is Directed Research (DR)?

- Course offered to students
- Practical application of Software Engineering
- Students may sign up for 1-3 units
- Expected to work 5 hours/week per unit
- 40 – 60 Masters CS/EE students per semester
- Students select primary role (developer, tester)

# What is Unified Code Count (UCC)

## Functionality

- Physical/Logical SLOC
- Blank and Comment Lines
- Compiler Directives, Executable Instructions
- Keywords
- Differencing
- Duplicates
- Cyclomatic Complexity

## Typical Projects

- New Language Counters
- New Features and Enhancements
- Research metrics to include in UCC
- Administrative
  - Web Site
  - Test Plans and Procedures



# INITIAL DATA ACCUMULATION CHALLENGES

- Organize data from various sources and mediums
  - Google Docs
  - Backup of File Management Database
  - Emails
- Map deliverables to correct projects

# PLANS AND IDEAS

- Identify factors that determine required effort
- Consider effort affects of re-use
  - Cost drivers and ratings (COCOMO®)
    - Available documentation
  - Metrics for non-programming work (documentation, etc.)