



University of
Sheffield



COM3529 Software Testing and Analysis

Coverage Criteria: Conclusions

Professor Phil McMinn

Coverage – The “Cons”

1. They can generate too many test requirements
2. Not all of the test requirements are useful
3. Higher coverage does not necessarily guarantee that more bugs will be found



Coverage – The “Pros”

1. Coverage Criteria ensure our test suite has certain sets of properties
2. Coverage Criteria tell use **how much** testing has been done, and when to **stop testing**.



Software Testing Research and Coverage Criteria

- The relationship between actual faults, failures, and types of coverage and coverage levels
- Where to concentrate testing in order to find failures
- What the ideal test suite size is
- How to check that a fault has already been repaired, and has not introduced further faults
- Whether a fault can be automatically repaired
- ...

