

# Management Information Systems Major: Assessment Results 2014-15

## MIS Learning Goals

**MISLG1:** Document requirements of an information system using state-of-the-art modeling techniques.

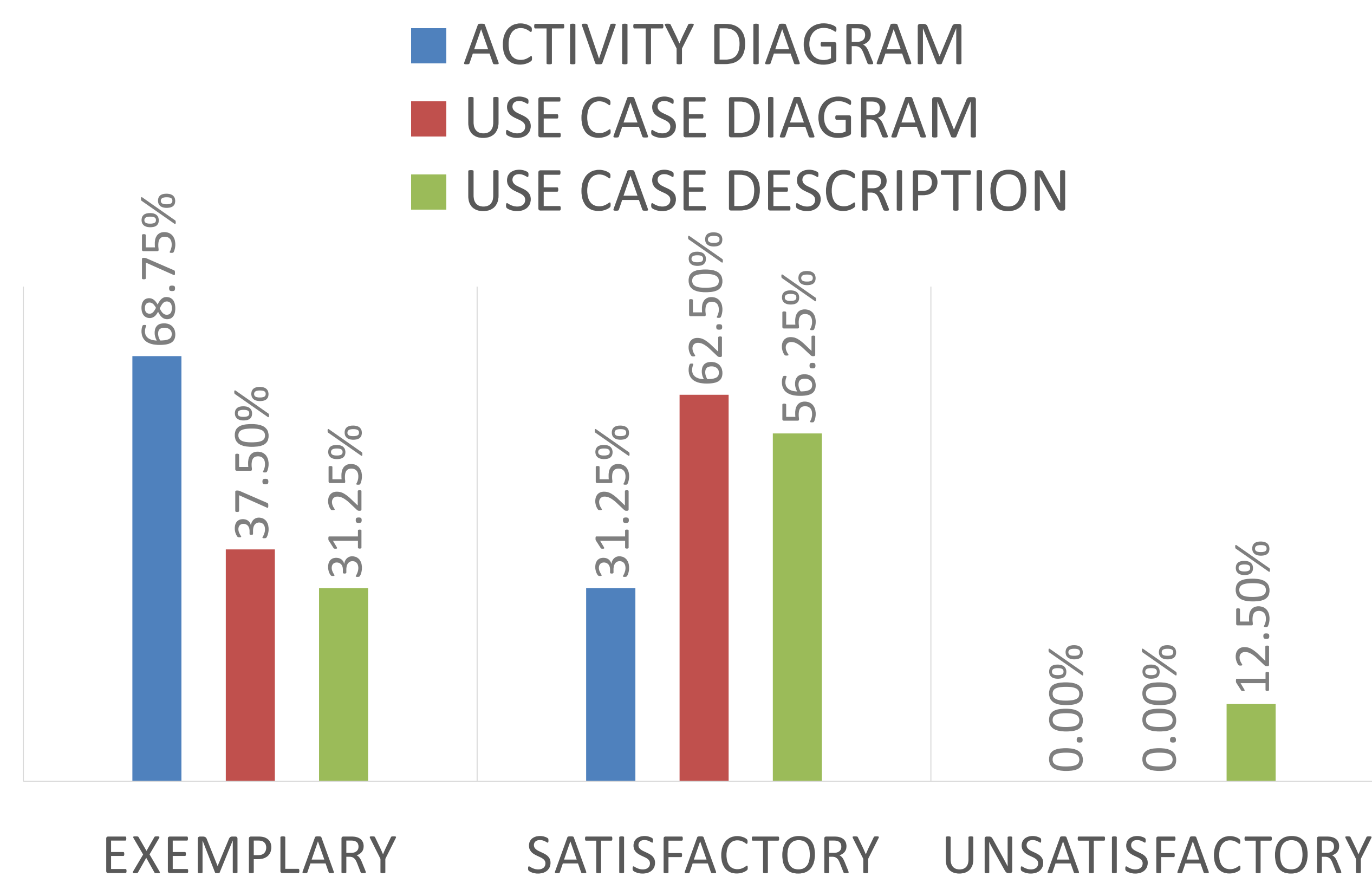
**MISLG2:** Develop a data model that satisfies the third normal form (3NF).

**MISLG3:** Understand and apply the concepts of object-oriented systems.

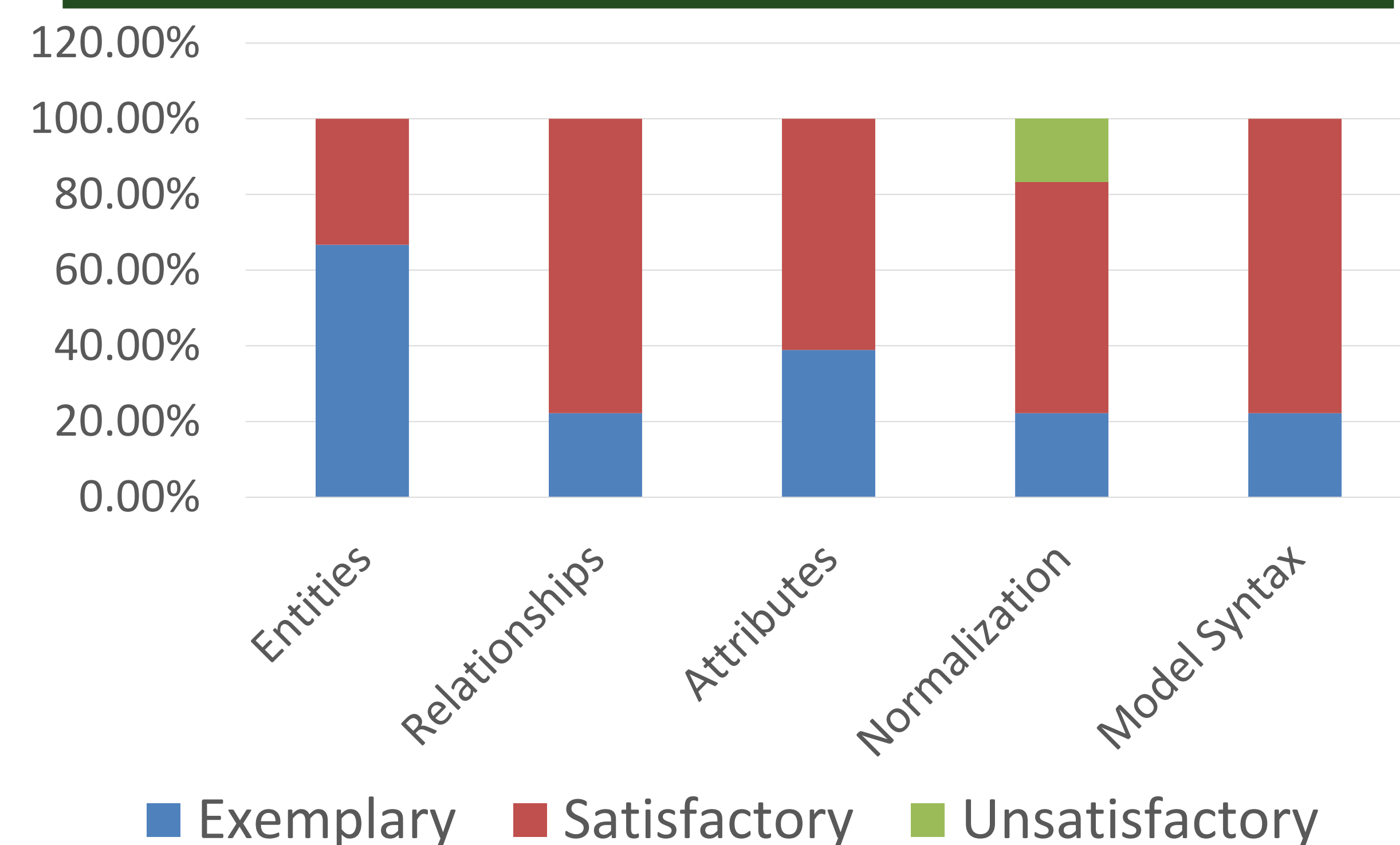
**MISLG4:** Understand the design principles of computer network architectures and apply them to a business problem.

**MISLG5:** Understand project management principles and apply these principles to a practical situation.

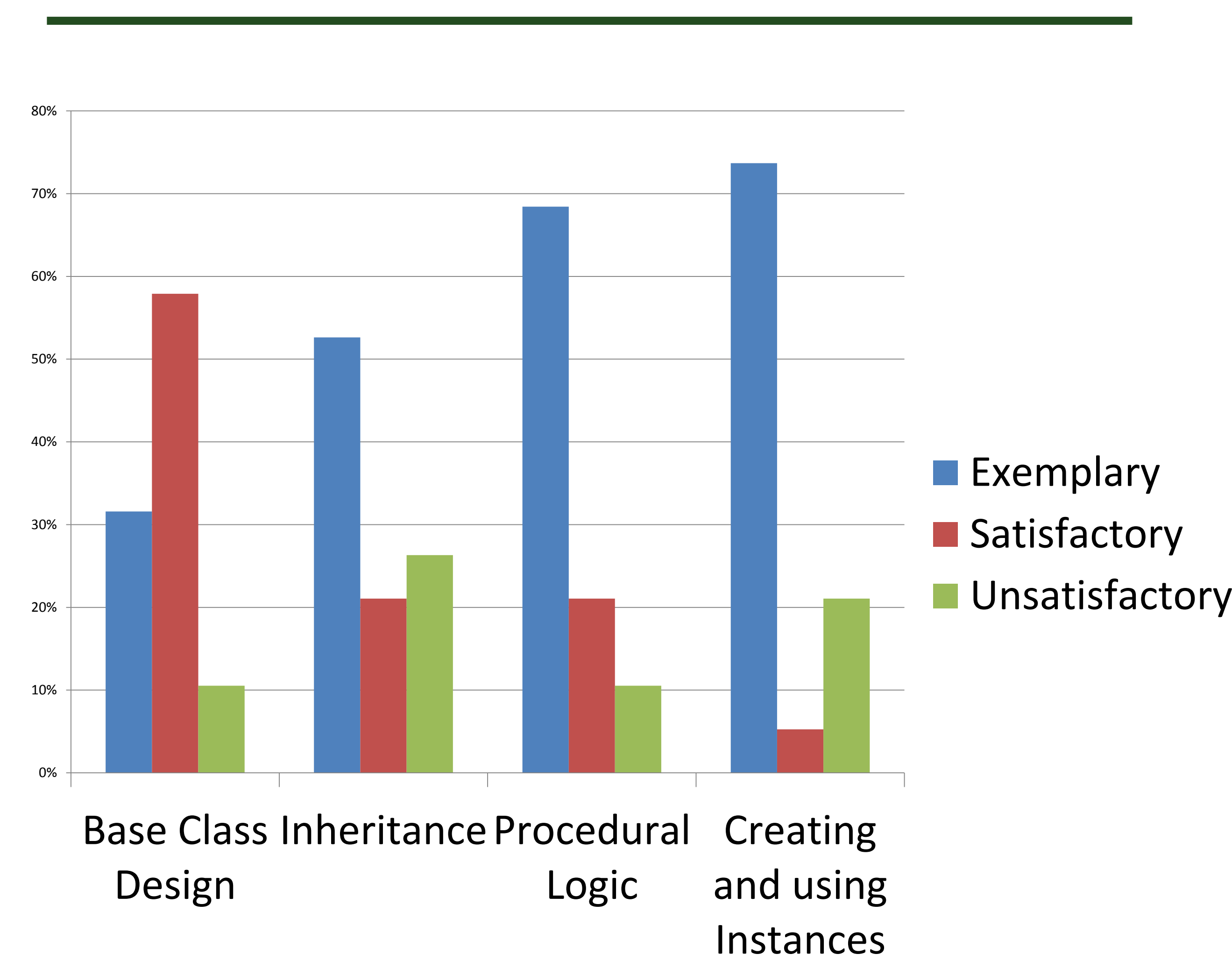
## RESULTS FOR MISLG1 (SPRING 2015)



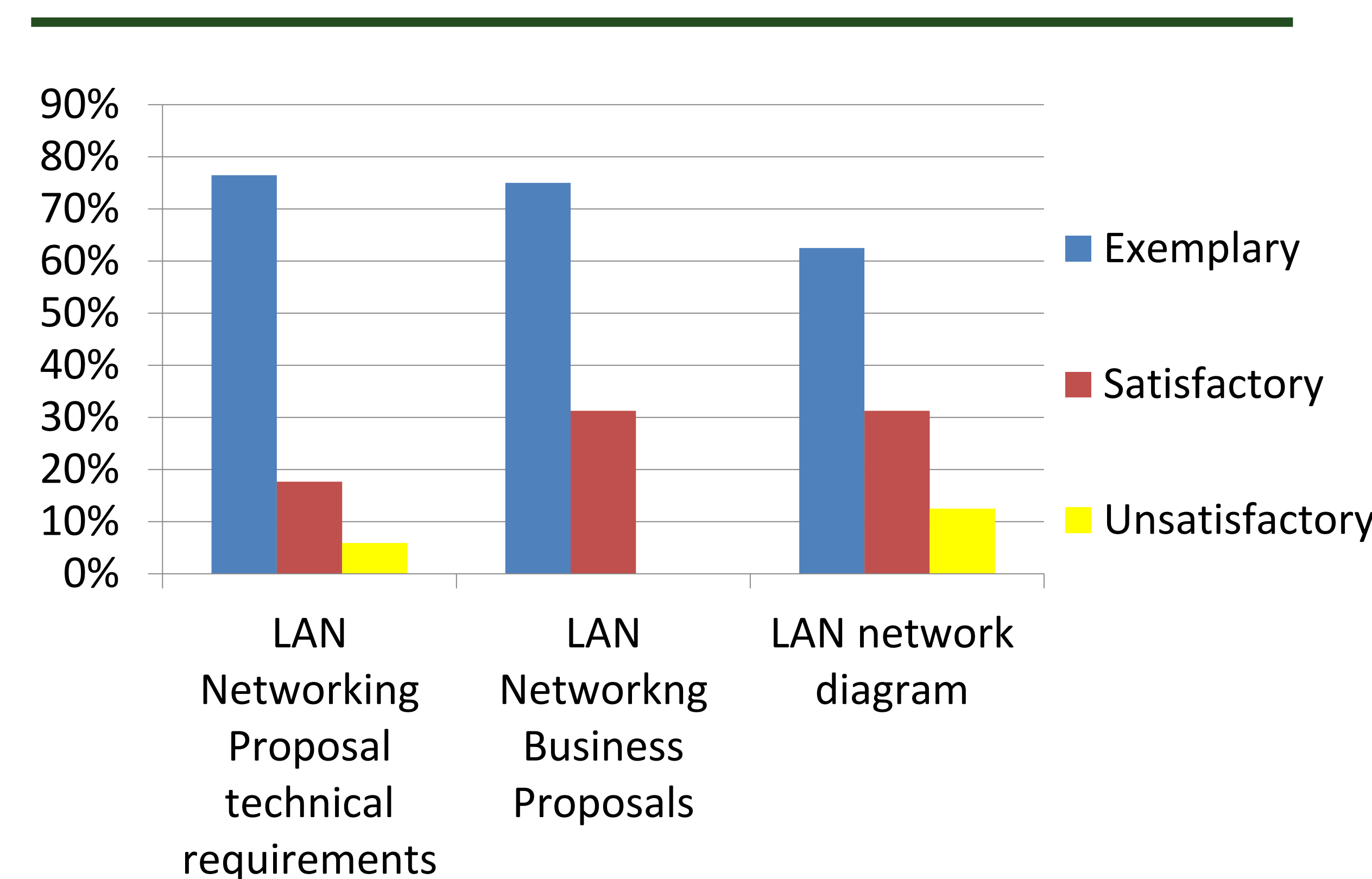
## RESULTS FOR MISLG2 (FALL 2014)



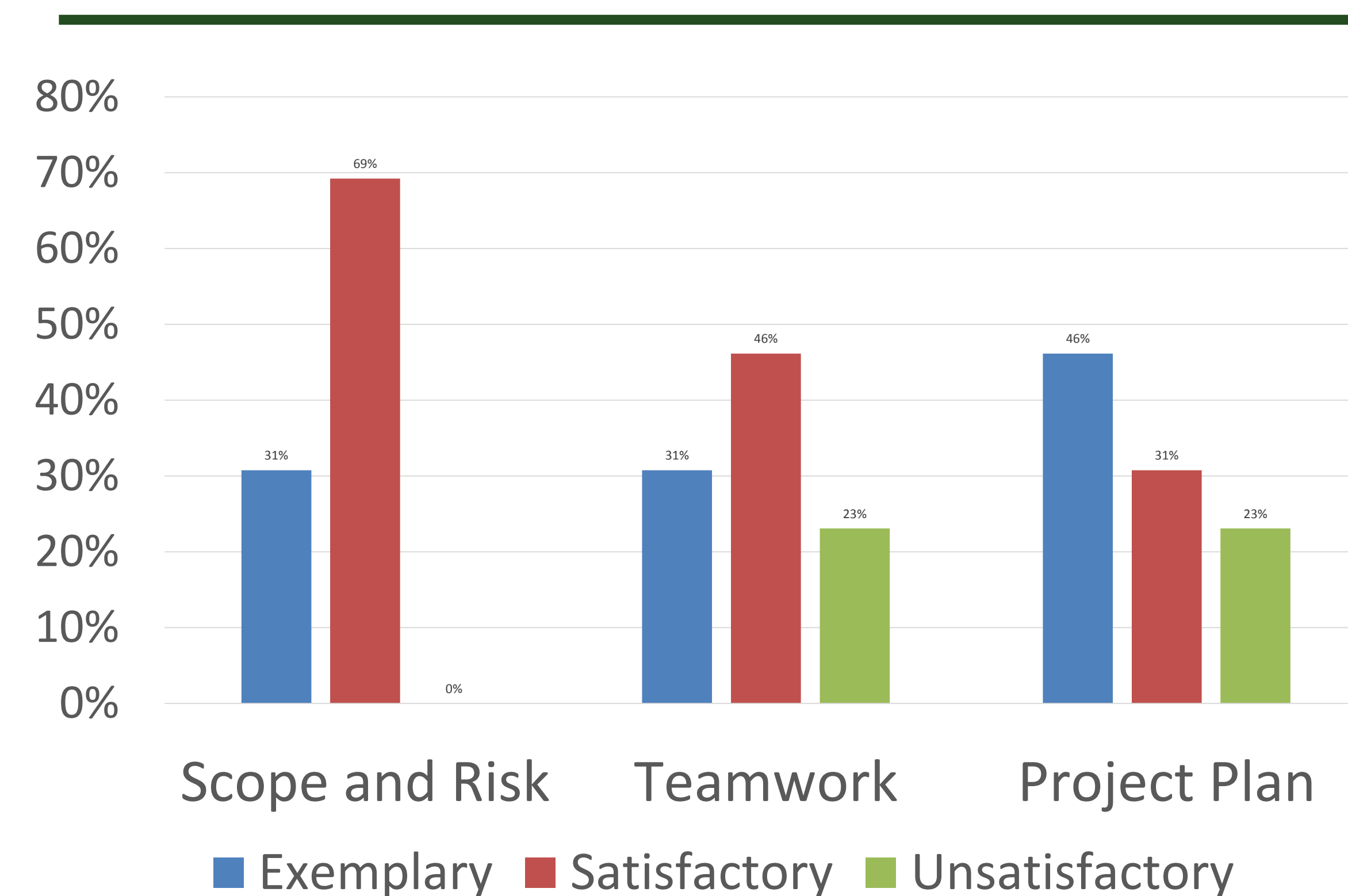
## RESULTS FOR MISLG3 (FALL 2014)



## RESULTS FOR MISLG4 (FALL 2014)



## RESULTS FOR MISLG5 (SPRING 2015)



## Observations

**MISLG1:** Students continue to perform well in this learning goal. For the Use Case Description dimension, the results include 12.5% unsatisfactory rate (2 out of 16 students). There are no students in the unsatisfactory category for the other dimensions. In the past assessment results, there were very minimal unsatisfactory rates.

**MISLG2:** Students continue to do well, except for the normalization dimension. For the normalization dimension, the unsatisfactory rates (17%) are worse than previous years; in Fall 2013, 7% of students (1 out of 15) were in the unsatisfactory category. Normalization needs to be emphasized further; add more hands-on in-class exercises to cover this topic in Fall 2015.

**MISLG3:** For base class design, students need to use parameters appropriately (the main reason for satisfactory rating instead of exemplary). Students need to better understand how to create derived classes. More emphasis needs to be given to class design and inheritance, e.g. overloading and developing methods with proper signatures, better utilization the features of inheritance such as not duplicating base class members and overriding methods to add functionality in derived classes.

**MISLG4:** Overall, students did very well, especially for the business proposal criterion. Students misunderstood or chose not to flesh out their technical proposals with adequate supporting references. This needs to be emphasized more in future instructions. Deficiencies in the network diagram criterion could be improved in the future with more instruction on diagram standards and tools for creating professional-looking diagrams.

**MISLG5:** High unsatisfactory rates for Teamwork and Project Plan.

## Changes/Action Items

- (1) C# .NET introduced in MIS 322;
- (2) MySQL introduced in MIS 328; SQL Server introduced in MIS 322.
- (2) Networking lab for MIS 327 upgraded.
- (3) Requirements for healthcare applications added to curriculum
- (4) Spring 2016: Place more emphasis on writing process steps for use case descriptions (currently at 12% unsatisfactory rate)
- (5) Fall 2015: Cover normalization in more depth.
- (6) Fall 2015: Provide more guidance on references aspects of technical proposals; provide further instructions to students on standards for network diagrams.
- (7) Spring 2016: Detailed coverage of Salesforce.com and SharePoint. Relate project mgt. concepts to these applications.