

**Requirements and Specification, ESOF 328, Spring 2020**  
**“First things first: Setting requirement priorities” (Chapter 16)**  
**March 30**

**First things first: Setting requirement priorities, Chapter 16**

Importance of prioritizing requirements:

- Deliver maximum business value as quickly as possible
- Provide highest value at lowest cost
- Can't do it all (at least not all at once)

Choose an appropriate level of abstraction for the prioritization

- Features
- Use cases or user stories (or could prioritize alternative flows lower)
- Functional requirements

Could first prioritize features, and then prioritize requirements within high priority features.

Prioritization issues:

1. Relative importance of requirements to the customers
2. Timing at which capabilities need to be delivered
3. Requirements that serve as predecessors for other requirements and requirements that must be implemented as a group
4. The cost to satisfy each require

Three level technique

- Can use different names but essence is - high, medium, low
- Two dimensions- importance and urgency
- High priority – important and urgent
- Medium priority – important but not urgent
- Low priority – neither important or urgent
- (Urgent to some, but not all, likely not in the business objective, so don't bother with these)

Prioritization based on value, cost and risk

- Everything uses a 1-9 (high) scale
- Customers rate the items by benefit/value and penalty (cost if this item is not included)
- Developers rate the items by relative cost to implement and technical risk.
- Weigers provides a spreadsheet that performs the calculations ([https://katie.mtech.edu/classes/esof328/page\\_wiegers.php](https://katie.mtech.edu/classes/esof328/page_wiegers.php) see “Project Prioritization Spreadsheet.”)
- The relative weights of the 4 items can be changed.