

# Software Engineering

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AY 2010-2011

Master Innovazione Reti



**SoftEng**  
<http://softeng.polito.it>

# Lecturers

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- Maurizio Morisio
  - ◆ Dip. Automatica e Informatica
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# Consultation

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- in classroom
- send email to schedule appointment

# Web site

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- <http://softeng.polito.it>
  - ◆ follow courses
  - ◆ 03BID Master ICT
  
  - ◆ communications
  - ◆ teaching material

# Outline

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- Software engineering, motivation and issues
- Requirements
  - ◆ UML
- Design
  - ◆ UML
- Verification and Validation
  - ◆ inspections, testing

# Goals of course

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- *Understand* problems in development of large software systems
- *Acquire basic skills* in requirement definition, verification and validation, configuration management, project management

# Organization

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- Lectures
- Exercises
- Final exam

# References

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- Bruegge, Object oriented software engineering
- Sommerville, Software Engineering 6<sup>th</sup> or 7<sup>th</sup> ed.
  - ♦ Pfleeger, Pressman, Shach
- Fowler, UML Distilled
  - ♦ [www.cetus-links.org](http://www.cetus-links.org)
- Morisio et al. Software Engineering Exercises, CLUT 2010

# References

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- Mc Connell, Code complete
- DeMarco, Peopleware
- Enders, Rombach, A Handbook of Software and System Engineering

# Tools

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- UML
  - ◆ starUml
  - ◆ ArgoUML
  - ◆ Omondo (plug in Eclipse)
  
  - ◆ [www.cetus-links.org](http://www.cetus-links.org)