Master Degree in Mathematics
University of Verona

http://profs.scienze.univr.it/mathematics

Department of Computer Science

a.y. 2014/2015
Why in English?

- The official language of science is English
- More opportunities for studying/research/job both in Italy and abroad
- CLIL: English as mandatory teaching language in high school classes (C1 level required)
- Highly qualified international teaching staff
Job opportunities: alumni

- Marcella 2014, internship and PhD in Mathematics, University of Sophia-Antipolis (France)
- Simone, 2014, PhD in Applied Mathematics, Cambridge (UK)
- Davide, 2013 PhD in Computer Science, University of Lugano (Switzerland)
- Giulia, Marianna, Elena, 2013–14, PhD in Mathematics, Universities of Trento and Verona
- Sara, 2011, quantitative researcher, Ales Market Research, Milan
- Marcello, 2013, analyst, Panrhema (financial advice), Milan
- Anna, 2013, business intelligence analyst, Deloitte, Milan
- Chiara, 2013, quantitative analyst, Almaiura, Verona
- Silvia, Andrea, . . . , 2012, high school teachers

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Internships

- Chiara, 2014, Camera di Commercio, Verona
- Andrea, 2014, Fairmat (software house and financial mathematics)
- Isacco, 2014, Aleph Energy (models for energy markets)
- Alessandro, 2014, Cattolica Insurance
- Cristina, 2013/14, Erasmus and internship, University of Innsbruck (Austria)
- Sara, 2011, French Institute of Petroleum, Paris (France)
- Gregorio, 2014, Enginsoft (Computer Aided Engineering)
- Elisa, 2012, Zamperla (roller coasters design)
- Martina, 2013, Atraki (traffic flow modeling), Verona

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Curricula

Common foundational courses
- Differential geometry and topology
- Functional analysis
- Analytical mechanics
- Algebra

Curriculum Mathematics for education - core courses
- Mathematical logic
- Mathematics teaching and workshop
- Mathematical methods for computer science

Curriculum Applied Mathematics - core courses
- Partial differential equations
- Advanced numerical analysis I and II
- Stochastic differential equations
- Optimization
Elective courses: main tracks and tutors

- **Education** (foundations, modern physics, physics education laboratory, TFA, teaching): Sisto Baldo
- **Pure maths** (algebra, geometry, analysis): Lidia Angeleri
- **Industrial maths** (numerical modeling in applied sciences, scientific computing, ECMI): Marco Caliari
- **Financial maths** (quantitative finance, stochastic modeling, numerical methods, ECMI): Luca Di Persio
- **Data science** (statistical and computer science methods for data analysis, optimization algorithms): Romeo Rizzi

I) seminar courses delivered by international faculties
II) courses from other master’s degree in Verona (in Italian)
III) courses in agreement with University of Trento
IV) courses within Erasmus+ mobility program

Type III) or IV) courses may supersede foundational or core courses
Further activities

- soft skills (Scilab, C++, R, foreign languages)
- Internships (http://profs.scienze.univr.it/~caliari/stage)
- Final project

Also abroad within Erasmus+ program (deadline: September).
Information

- Web page
  http://profs.scienze.univr.it/mathematics
- Email
  master.math@ateneo.univr.it
- These slides
  http://profs.scienze.univr.it/mathematics/matmagen.pdf
- Facebook page (managed by students’ representatives)
- Students’ mailing list
  mathematics@liste.studenti.univr.it