SUCCESS WITH YOUR MASTER!

Welcome to the Meet & Ask Zoom webinar of Computer Science (Joint Degree with VU)

We start at 16:00

Questions? Please ask them in the Q&A (not in the chat).

This session is being recorded. Your camera and microphone are automatically turned off.

Thanks and enjoy this presentation
Your hosts today:

- **Alban Ponse**  
  UvA coordinator Master CS  
  Associate prof. Computer Science (UvA)  
  A.Ponse@uva.nl  
  https://staff.fnwi.uva.nl/a.ponse/

- **Casper van Ek & Erik Link**  
  Master students Computer Science
Welcome to Amsterdam!

As a Computer Science student you are offered the best of two universities within a single Master program.

◆ Vrije Universiteit Amsterdam, Dept. of Computer Science
◆ University of Amsterdam, Informatics Institute

You will take courses by lecturers from both universities, at both locations (VU campus and Science Park).
Joint degree: one diploma issued by both universities

Larger selection of courses

More research opportunities for graduation projects and world-class researchers at your finger tips

More of everything…

But you’ll need to travel between two campuses and cope with two different administrative systems
FACT SHEET

2 years program

120 ECTS credits

taught in English

international student population

excellent job perspective in industry (in NL and abroad)

stepping stone for a career in industry or academia
COMPUTER SCIENCE PROGRAM

5 different tracks

◆ 5 compulsory courses per track
◆ Master core (for all tracks)
◆ constrained choices
  ♦ programming
  ♦ software engineering
  ♦ security
  ♦ foundations
  ♦ mathematics
  ♦ societal context
◆ free choices (some courses are pre-approved)
BIG DATA ENGINEERING

Focus: How to cope with the enormous amounts of data on e.g. the Internet and social media and in companies

Compulsory courses:
- Information Visualization
- Data Mining Techniques
- Web Services and Cloud-based System
- Web Data Processing Systems
- Large Scale Data Engineering
**Focus:** Apply formal methods in computing and concurrency

**Compulsory courses:**
- Protocol Validation
- Logical Verification
- Advanced Logic
- Term Rewriting Systems
- Distributed Algorithms
INTERNET AND WEB TECHNOLOGY

**Focus:** Technology for Internet and Web

**Compulsory courses:**

- Advanced Computer Networks
- Distributed Systems
- Distributed Algorithms
- Web Services and Cloud-based Systems
- Performance of Networked Systems
PARALLEL COMPUTING SYSTEMS

Focus: Large-scale parallel computing
(clusters, grids, clouds, mainframes)

Compulsory courses:

Parallel System Architectures
Programming Large-scale Parallel Systems
Parallel Programming Practical
Programming Multi-core and Many-core Systems
Performance Engineering
Focus: Mastering complex software systems for a sustainable digital society

Compulsory courses:
- Green Lab
- Service Oriented Design
- Software Asset Management
- Software Architecture
- Software Testing
Constrained choice, social context of computer science:

- **History of Digital Cultures** on history of computing
- **ICT for Development** on ICT in developing countries
- **ICT4D in the Field**, an ICT project in a rural community
- **E-commerce Law** on legal issues for on-line business
- **Entrepreneurship in AI and CS** on starting a company

**Literature Study and Seminar**

**Master Project (30 ECTS)**
CONSTRAINED CHOICE

Ensuring breadth of each individual study program

Constrained choice modules (18-24 ECTS):
* programming
* software engineering
* security
* foundations
* mathematics

Each to be chosen from a predefined set of choices

Partially covered by your track's core
Free choice (24-30 ECTS):

Courses from other tracks and other courses from constrained choices are pre-approved

Any course from a pre-approved list of suggestions

Other courses (at Master-level) from Computer Science, Computational Science, Artificial Intelligence, Bioinformatics, Logic, … (to be approved by the exam committee)
YOU CAN TAILOR YOUR STUDY PROGRAM

Do you want to develop your own study program?
Devise your own free Master program and get it approved by the exam committee.

Want to go to industry?
Do your graduation project as an internship with a company (or do an *Industrial Internship* for 6 ECTS).

Want to go for a larger research project?
Combine *literature study*, *individual project*, and *Master project* into a scientific research project of up to 42 ECTS.
Master program coordinators

- **CS tracks:**
  - BDE: *Dr. Adam Belloum*  
    a.s.z.belloum@uva.nl
  - FCC: *Dr. Femke van Raamsdonk*  
    femke@cs.vu.nl
  - IWT: *Dr. Jacopo Urbani*  
    j.urbani@vu.nl
  - PCS: *Dr. Jacopo Urbani*  
    j.urbani@vu.nl
  - SEG: *Dr. Ivano Malavolta*  
    i.malavolta@vu.nl
DOUBLE DEGREE

Double degree programs for MSc students (e.g. GSEEM for the SEG Track)

- You follow year 1 of the program at the VU
- You follow year 2 of the program at the partner university
COURSES AT THE UNIVERSITY OF AMSTERDAM

Several courses are at Science Park

Beware to register for UvA courses and exams in time
MSc Computer Science (student registration@VU)

Your courses at the University of Amsterdam (UvA)

Location: SCIENCE PARK AMSTERDAM

Course-registration@UvA (theory):
1. you will receive a UvA-net-ID from the (UvA) Central Registration Office
2. then you can register for courses via https://datanose.nl/#masterenrol

Following courses@UvA (practice):
1. visit UvA-classes that you want/have to; timetable at https://rooster.uva.nl/
2. your registration is completed in 2 weeks

Contact person for your UvA-courses:
dr. Alban Ponse
https://staff.fnwi.uva.nl/a.ponse/