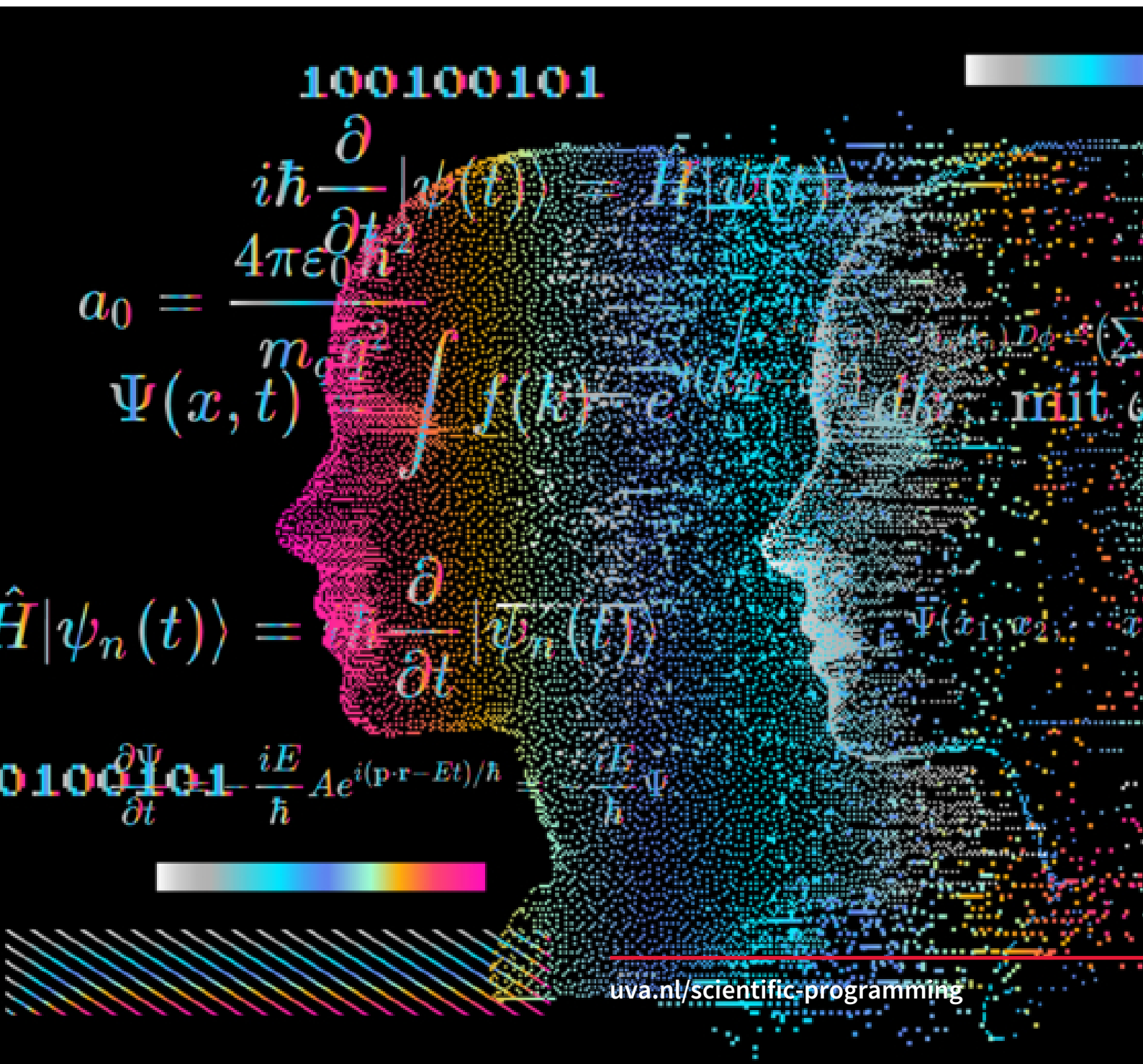




Course

Scientific Programming 1



Do you want to learn the fundamentals of programming in a scientific context? This course serves as an excellent entry point for mastering the essential principles of programming in Python, one of the most used programming languages in the world.

During this course we focus on the basics of programming, which you will learn by working on problems from several scientific areas. Upon successfully finishing the course you will be able to apply your programming skills to any domain and use them for your own projects.

After completing this course:

- you can transform the description of a simple algorithm into working code by combining basic programme elements.
- you can track down and fix several common programming errors in simple programmes.
- you can make your programmes simple to understand and easy to read.
- you can use libraries in your programme and know how to find and read documentation on new-found libraries.

Flexible design of the course:

- The course consists of three modules and concludes with a final exam on-site.
- The course is primarily online and self-study, but also offers weekly on-site tutorials.
- The on-site tutorials (at the Science Park campus) are there to help you with your assignments. They are not mandatory but we highly recommend attending the tutorials.
- We encourage you to complete the course within 7 weeks (time investment of about 11 hours per week).

For whom?

The course is designed for anyone who wants to learn computer programming in Python and who has some curiosity about different scientific subjects. No prior experience with programming is required. A university/higher education level is recommended.

Follow-up course: Scientific Programming 2

Do you already have some experience with Python? In that case, our course Scientific Programming 2 might be more relevant for you. See our website for more information.

Practical information:

- **Start dates:** every March & October (see the website for the exact dates)
- **Duration:** 7 weeks
- **Investment:** 80 hours in total
- **Mode of study:** self-study, online, on-site tutorials (optional but strongly recommended)
- **Language:** English
- **Tuition:** € 1.000,- (including all study materials, exam and guidance). If you also sign up for Scientific Programming 2, the fee for both courses will be € 2.000,- in total. UvA Alumni get a 10% discount.
- **Certificate:** after successfully completing the course, you will receive a certificate of the University of Amsterdam.
- **Location (kick-off day, tutorials, exam):** Science Park campus, University of Amsterdam

Sign up:

To sign up for the course, please go to our website: [uva.nl/scientific-programming](https://www.uva.nl/scientific-programming)

Questions?

If you have any questions, please contact us by sending an e-mail to:

professionaleducation-ivi@uva.nl



You can find more information about this course at: <https://www.uva.nl/scientific-programming>