



UNIVERSITÄT
DUISBURG
ESSEN

Open-Minded

Programming Paradigms

Summer Term 2025

Organisation

- **Lecturer:**
Janis Voigtländer
Area: Formal Methods, Programming Languages
- **Teaching Assistants:**
Patrick Ritzenfeld
Marcellus Siegburg
Oliver Westphal
- **Student Assistants:**
Jan Andermahr
Niklas Mecke

To my knowledge, mainly:

- 1. Bachelor Students “Angewandte Informatik”**
- 2. Bachelor Students “Computer Engineering (ISE)”**

Some (relevant) lectures you have presumably attended:

- Grundlegende Programmiertechniken (or ISE equiv.)**
- Fortgeschrittene Programmiertechniken (?)**
- Logik (?)**
- Softwaretechnik (?)**

- **In-class on Wednesdays, 08:15 – 09:45, in LB 131.**
- **Lecture videos exist from previous years, but they are only supplementary.**
- **The lectures will use slides, but also “live programming” and free form discussion of concepts.**
- **The content of this year’s course is what will be relevant for the exam.**

60h „Präsenzleistung“ + 120h „Eigenleistung“

My attempt at translating this, during the lecture period:

- **1,5h per week in the Wednesday lecture**
- **2–3h per week for studying material**
- **2–3h per week for working on the exercise tasks
(might happen in the lab with Oliver)**
- **1,5h per week in the exercise group**

Plus 60h exam preparation after the lecture period.

- **There are weekly exercise groups. Tasks will be given in advance, solutions submitted via Autotool, then discussed in the groups.**
- **Doing the exercises (on your own) is extremely important for being successful in the course and exam.**
- **In particular, there will be a focus on programming concepts and tasks. Such material cannot be learned by heart. It needs practice!**

Tentative group slots, possibly some merging:

- **Mon, 10:00 – 12:00 or 12:00 – 14:00**
- **Mon, 16:00 – 18:00**
- **Tue, 10:00 – 12:00**
- **Thu, 10:00 – 12:00 and/or 12:00 – 14:00, 14:00 – 16:00**
- **Fri, 08:00 – 10:00**

Going to start in two weeks (I guess).

- **When you submit an exercise solution to Autotool, you will receive immediate feedback. Read it carefully!**
- **If you have individual questions on your submission or on Autotool's feedback, you can use an Autotool feature for direct interaction.**
- **After the submission deadline, your solutions might receive additional feedback (if necessary).**
- **Also, potentially bring up specific questions in the exercise groups.**

- **New offer (experiment?) this semester:**

Tuesday afternoon, “supervised programming” on the exercise tasks of the week.

- **Oliver will be there and provide assistance.**
- **In principle, free/spontaneous come-and-go, but if there turns out to be high demand, we might have to organize more strictly.**

- **A written exam is planned for 28th August, at 15:30.**
- **The exam will be about the course as taught this term!**
- **The exam tasks will be given (only) in German.**
- **The exam will last 120 minutes.**
- **There are no bonus points for the exam.**

- Only students of “Bachelor Angewandte Informatik”:

Versuch	1,0	1,3	1,7	2,0	2,3	2,7	3,0	3,3	3,7	4,0	Σ	5,0
1.	2		2	2	1	1	1	3		4	16	16
2.					3	1		2		1	7	11
3.				1		2	1	2	1	2	9	2

Moodle for (among other things):

- **Links to slides and literature**
- **Past lecture videos, and post-exercise videos**
- **Soon: installation instructions**
- **Exercise tasks (links to Autotool, CodeWorld, ...)**
- **Old exams**
- **Possibly announcements**

- **In most cases, asking a question in presence makes more sense than sending an individual email to me or to the assistants/tutors.**
- **In case of specific questions on an exercise task: the Autotool “chat” feature.**
- **If emails are sent at all, they should come from your uni-due.de accounts (or may simply be ignored).**
- **On the other hand, you should check your uni-due.de mail account at least once per (work) day.**
- **Note: I will essentially cease communication after the lecture period (18th July).**

Some additional remarks

- **Do actually learn the programming languages on offer.**
- **Do solve the exercise tasks each week.
By programming on your own.**
- **Do not try to learn “just” for (and before) the exam.
Take the mapped out workload seriously.**

- **Make you more competent programmers.**
- **Prepare you for programming in languages outside your “comfort zone”.**
- **If you are a Computer Science student, make sure that you eventually holding a Bachelor degree means you actually acquired competencies in different programming paradigms.**
- **Hence (maybe inconveniently for you), make sure that you can't pass the exam without such competencies.**