

Advanced Design and Programming

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ADAP A01

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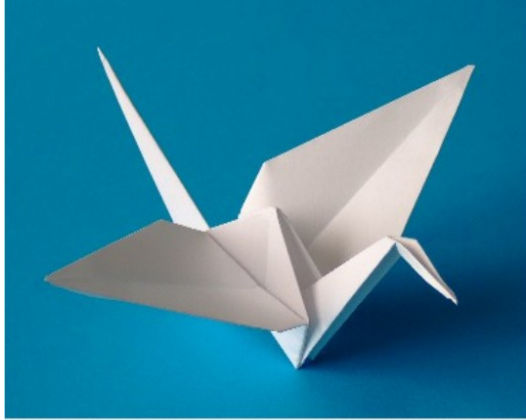
Course Learning Goals

- To acquire competence in ...
 - domain-independent
 - principles and practices of
 - advanced object-oriented
 - design and programming

Wahlzeit / Flowers Application

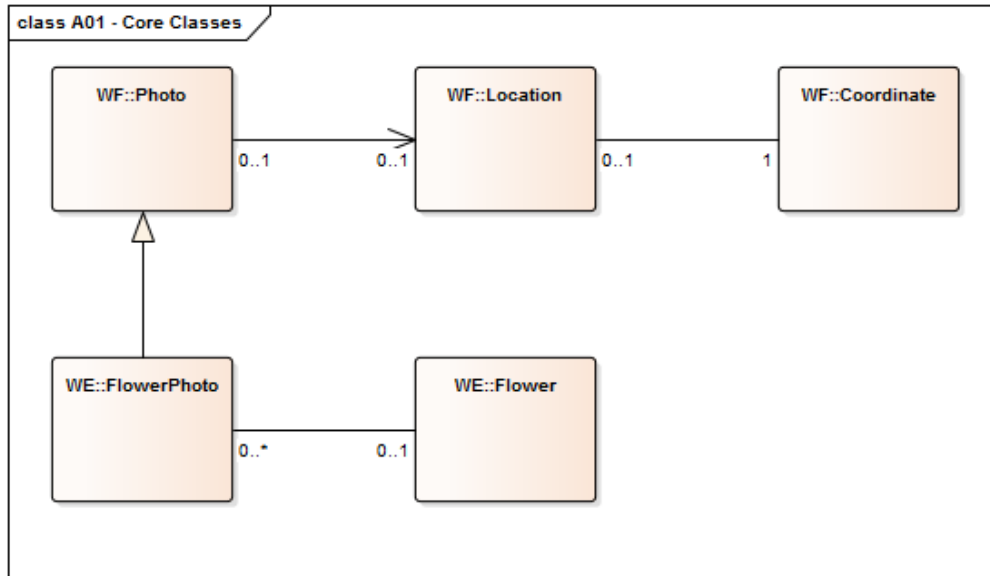


Student Choice of Project 1 / 2



Student Choice of Project 2 / 2

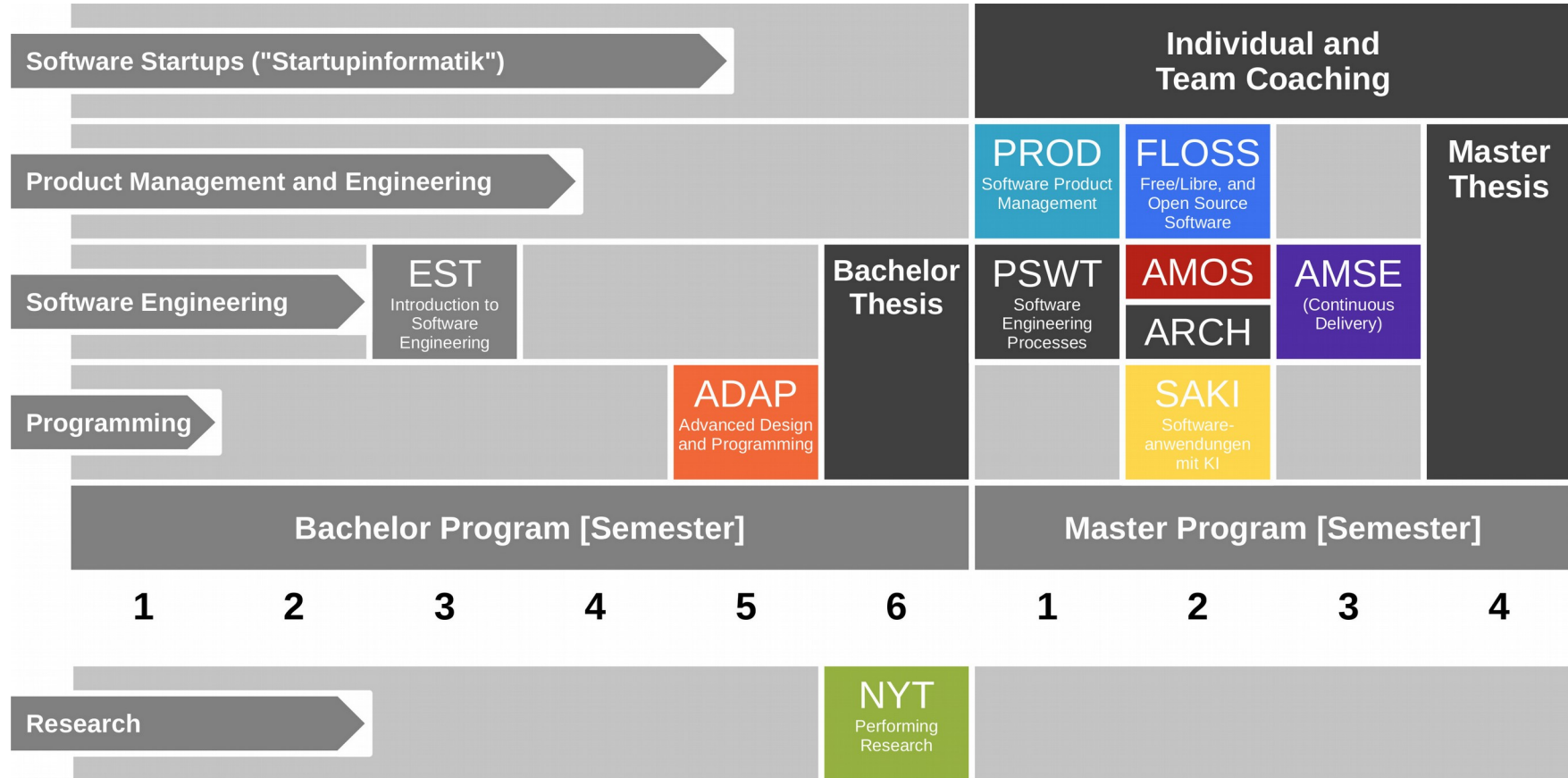
- Choose something that will provide you with domain classes
 - Food → Type of food, price, location
 - Landscapes → Location, season, camera
 - Postage stamps → Stamp, country, age
- You will need these domain classes for your homework



Skills Required for Course

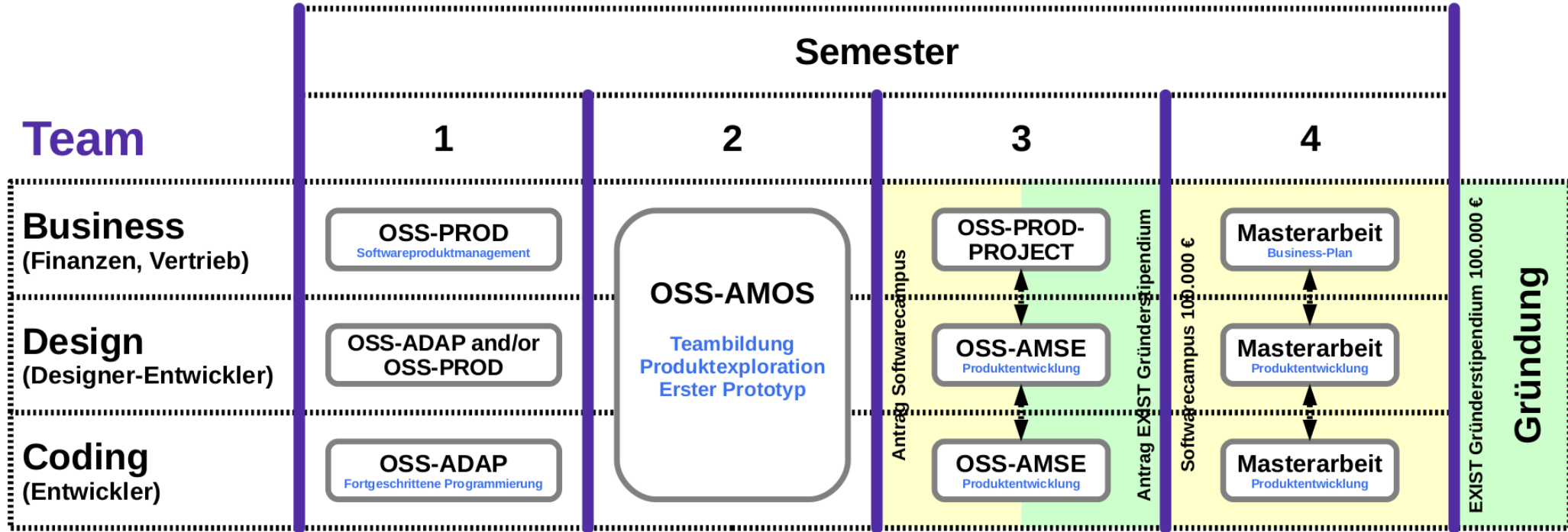
- Required prior student skills
 - Programming in Java
 - Working with git
- Familiar with at least one
 - Operating system (default: Linux)
 - Command line (default: bash)
 - Development environment (default: Eclipse)
- Expected of student
 - Willingness to learn by themselves

Course Position in Curriculum



Startupinformatik

Dein Weg zur Startup im Masterstudium, seit 2010!



<http://startupinformatik.de>

Gewinner 1ter Preis 2015
Programm zur Startup-
Förderung an Hochschulen



Courses and Modules

| | | Courses (Lehrveranstaltungen) | | |
|---------|----------|----------------------------------|--|------------|
| | | OSS-ADAP- VUE | | Total ECTS |
| | | | | |
| Modules | OSS-ADAP | x | | 5 |
| | | | | |
| | | | | |

Course Grading [1]

- Understanding of lecture content (4 SWS) = $60 / 150 = 40\%$
 - Graded using [0..10] each class session using StudOn quizzes
- Homework assignments = $90 / 150 = 60\%$
 - Graded using [0..10] each

Class Quizzes

- Each class session starts with a class quiz
 - A quiz will test your understanding of last session's lecture(s)
 - A quiz typically has 5 questions and will last 10 minutes
 - The overall quiz is graded using [0..10] scheme (10 points in total)
- A class quiz will open precisely when class starts
 - The quiz is administered automatically through StudOn
 - It is your job to have reliable Internet access etc.
 - There is no way to make up for a missed quiz
- Please see the StudOn quiz FAQ <https://bit.ly/2JpgjnQ>

Homework Grading

| Categories | Points | | | | | Criteria |
|-------------------------------|--|---------------|---------|------------|-------|--|
| | Disagree | Disagree some | Neutral | Agree some | Agree | |
| Form (10%) | Does the deliverable meet formal requirements? | | | | | Does the deliverable meet page length requirements, has the right language, has required header, etc.? |
| Language (10%) | Is the language clear, concise, and helpful? | | | | | Are sentences complete, is the grammar correct, are statements coherent, etc.? |
| Solution Design (30%) | Does the solution make sense and is it explained well? | | | | | Is the answer clear, is it explained why it was chosen, are pros and cons weighed, etc. |
| Solution Implementation (50%) | Has the solution been implemented well? (If no implementation was required, use your explanation points for the implementation as well.) | | | | | Is the code clean, follows coding guidelines, is well tested, matches explanation, etc.? |

Requirement for Passing Course

- At least 50% participation in all grade-relevant components
 - Class quizzes
 - Homework submissions

Receiving a Grade for the Course

- If you want to receive a grade
 - You must register through the course management system
- If you cannot register through the course management system
 - Please follow these instructions: <https://wp.me/PDU66-2bx>
- Otherwise: No grade

No Oral or Written Exam [1]



Course Language [1]

- Class
 - Lecturer: German
 - Student: Choice of German or English
- Homework
 - Source code: English
 - Submissions: Choice of German or English

[1] See <http://osr.cs.fau.de/2012/03/10/english-or-german-deutsch-oder-englisch/>

Course Communication

- Announcements by email (through StudOn)
- Questions and answers using FSI Forum for course
- If you must send email, use the teaching team alias from course index



Project Contributor Agreement

- For contributions to Wahlzeit, we require a rights grant
 - We use the Sun Contributor Agreement
 - Available here: <http://osr.cs.fau.de/teaching/contributor-agreement/>

Course Information

- Course index
 - <https://goo.gl/H9Zcmy>

Thank you! Questions?

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