## Organization

### 3 credits course

- **Contact hours**
  
  \[8 \times 2 = 16h\]

  \[= 0.61 \text{ credits}\]

- **Individual work**

  **Project idea**
  
  \[4h\]

  \[= 0.15 \text{ credits}\]

  **Project plan & timeline**
  
  \[12h\]

  \[= 0.46 \text{ credits}\]

  **Milestones**
  
  \[6 \times 7h\]

  \[= 1.62 \text{ credits}\]

  **Expo**
  
  \[4h\]

  \[= 0.15 \text{ credits}\]
### Organization

**3 credits course**

- **Contact hours**  
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- **Individual work**  
  - Project idea  
    - 4h  
    - \(= 0.15\) credits
  - Project plan & timeline  
    - 12h  
    - \(= 0.46\) credits
  - Milestones  
    - 6 \(\times 7\)h  
    - \(= 1.62\) credits
  - Expo  
    - 4h  
    - \(= 0.15\) credits
Organization

- **13.09**: Introduction, Project Registration.
- **20.09**: Project Goals Presentation.
- **04.10**: Milestone 1.
- **18.10**: Milestone 2.
- **01.11**: Milestone 3.
- **15.11**: Milestone 4.
Organization

- **29.11**: Milestone 5.
- **13.12**: Milestone 6.
- **27.01 (exact time TBA)**: Project Expo.
How to pass?

- Create a **project plan**.
- Set up and achieve your own **milestones**.
  
  Failing those, gets you a strike.
  Do not get more than 3 strikes.

- Present the final result in the **expo + final video**.
  
  Missing that is an automatic failure.
The Final Result

- Some kind of a demonstratable software
  - Standalone build

- Good project page
  - Clear milestone descriptions and pictures
  - Link to the final build
  - Link to the repo
  - Short video of the final build!
What to do?

Anything you want related to computer graphics.
What to do?

Extra practical work for a thesis
So your thesis will be 9+3 or 30+3 credits of work.
What to do?

Work on some pet project you already have.
You are working on it in secret anyway, right?
What to do?

Continue a project from another course.
For example the CG course.
What to do?

Take on a new project and learn new things!
For You!

- **Good PCs**
  - Walter, Torrance and Cook
    - Ryzen R9-3900X
    - RTX2080 Super

  - Phong and Blinn
    - I7-6700
    - GTX 980 Ti
For You!

- Good PCs
- Multiple good monitors
For You!

- Good PCs
- Multiple good monitors
- Consultation
For You!

- Good PCs
- Multiple good monitors
- Consultation
- Many devices
For You!

- Good PCs
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- Many devices
- Books filled with algorithms
For You!

- Good PCs
- Multiple good monitors
- Consultation
- Many devices
- Books filled with algorithms
- Candy
INSPIRATION

Project Management

- **Milestone**
  - You can always change the plan.
  - A plan is better than no plan!

- **Plan should consists of:**
  - What do you want to have done?
  - General steps in what order you do things.
  - Required technologies (if applicable)

- **Plan sould not consist of:**
  - Detailed descriptions of every milestone...
Project Management

**Milestone** is a promise to a client of what will be done and working by the agreed time.
Project Management

- **Milestone**
- What will be done in the next 2 weeks?
- Specific research / content / feature / fix?

### Goals

- Add a boss fight into the end of tutorial - (8h) ✓
  - Add boss movement pattern - (2h) ✓
  - Add a way for the boss to interact with the player (take and give damage) - (2h) ✓
  - Design a fighting place - (1h) ✓
  - Add a health bar to the boss - (1h) ✓
  - Add a sequence taking place after the boss fight - (1h) ✓

- Add the shooting mechanic as an upgrade sold in the store - (1h) ✓
Project Management

- Include the estimated
  - Research time
  - Debugging time

How to do it?  Doing it.  Testing and fixing it.

3h  1h  3h
Project Management

MAKE SURE YOU
STICK TO THE GOALS
YOU PROPOSED!
Project Management

- **Motivation**
  - So you want something done by the end?
  - **Do a little bit throughout the semester.**
  - Little bit means a new feature in 2 weeks.
Project Management

- **Motivation**
  - So you want something done by the end?
  - Do a little bit throughout the semester.
  - Little bit means a new feature in 2 weeks.
  - Does not have to be a big feature ...
  - ... but **does** have to work!
Project Management

- **Clarity**
  - State your milestone *promise very clearly!*
  - Present your milestone *result very clearly!*
  - On your page and during the milestone defense.
  - Few well-formulated bullet points is the minimum.
Project Management

- Project Page
  - Do not start updating your page in the session!
  - Update it the day before!

LUKE, YOU HAVE HOMEWORK FOR THE WEEKEND

NOOOOOO!!!!
Project Management

- **Project Page**
  - Do not start updating your page in the session!
  - Update it the day before!
- Make it nice every time (not later):
  - Clear
  - Concise
  - Understandable
  - Easy to grasp
  - Quick to grasp
  - Illustrated with proper material
  - No grammar, spelling or formatting issues
Project Management

- **Result**
  - Make it good and working, no matter how small!
  - Instead of taking a too big goal to never reach it.
  - **Engage people in the final expo!**
Project Management

- **When in trouble:** ASK FOR HELP!
  - CGVR lab people (Ats, Jaanus, Madis and Raimond)
  - Fellow students
Project Management

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- Keep your milestones small, but specific!
- Do not restart or delete your project!
- Be positive!
  - Look for and present positive results!
  - Even if things look bleak.
Project Management

- **Reflection**
  - In the end you have implemented ~6 features
  - Compare it with your original project plan
  - Does not have to match
  - Think about how to continue...
Computer Science: MSc Practical Module

- **Goal:**
  The goal of the module is to prepare the student for entering the labor market after graduation.
Computer Science: MSc Practical Module

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The goal of the module is to prepare the student for entering the labor market after graduation.

- **Learning outcomes:**
After completing the module the student has acquired the basic practical skills to start work as a specialist, an entrepreneur or as part of the teaching staff.
Your Project

- What do you call it?
- What is the main idea?
- Want a joint project with another student?
- What’s your ŌIS/SIS name and e-mail?