

Draft of what to cover in your independent study, July 13 (mon) – Aug 20 (thur) Jul 11 2026

3 credit regular course, advisor DeBlois

A 3 credit course is usually 15 weeks 30 classes

Tues-Thurs 10-1 is 3 hrs twice a week, which is 6 lessons per week.

Number of weeks is: 5 weeks so we have 30 lessons.

“Minnie“ hardware got mounted on the cs server; I have the router here at home. So we really have Minnie1 and Minnie2.

Django & Minnie-Biggie Servers BackEnd-FrontEnd Exercises for Teams

Agile Principles mean the jobs are Developer, Product Owner and Scrum Leader

Chapter 1: From CS444 we know how to view Operating Systems and Client-Server Setups within the UMB Context

What is Client-Server?

What is your login?

Create Passwordless Login

On the CS server, create a website in the file system in your account on the server

Access it from the Web – much safer and this web server is front-end only

We test it. Use HTML, javascript etc.

Draw it in layers.

How does TCP/IP work between machines?

How does accessing the CS Webserver connect you to the particular website?

Now we get another server in the CS system. We connect through to it. It's Biggie.

We also, in the classroom, connect to a stand-alone server. It's Minnie.

We use Django on both.

What is Django?

How do we install it?

What do we build to use it to do both Back-End and Front-End?

The setup on Minnie is quite limited. No Internet.

But we do have accounts for each student.

An error on one could bring down the others. So we need to reboot Minnie.

When we create Biggie, we cannot let the world have access, only the team.

We'd like to have several teams access it and do different things.

We want each student to create a Back-End and a Front-End.

We need to draw a layered diagram for the levels involved.

We also need to draw a birds-eye view diagram of what connects to what.

We need things to do, setups and tests, for each configuration.

We need a little background reading, since students know very little about servers.

But they do know about clouds, so we can draw on that knowledge.