

COURSE SUMMARY

CS 130

Creative Software Architectures
for Collaborative Projects

Prof. Donald J. Patterson

A decorative graphic in the bottom right corner of the slide. It features a light blue, semi-transparent grid pattern overlaid on a darker blue background. The grid is composed of squares, and there are several circular shapes interspersed within the grid, creating a stylized, abstract design.

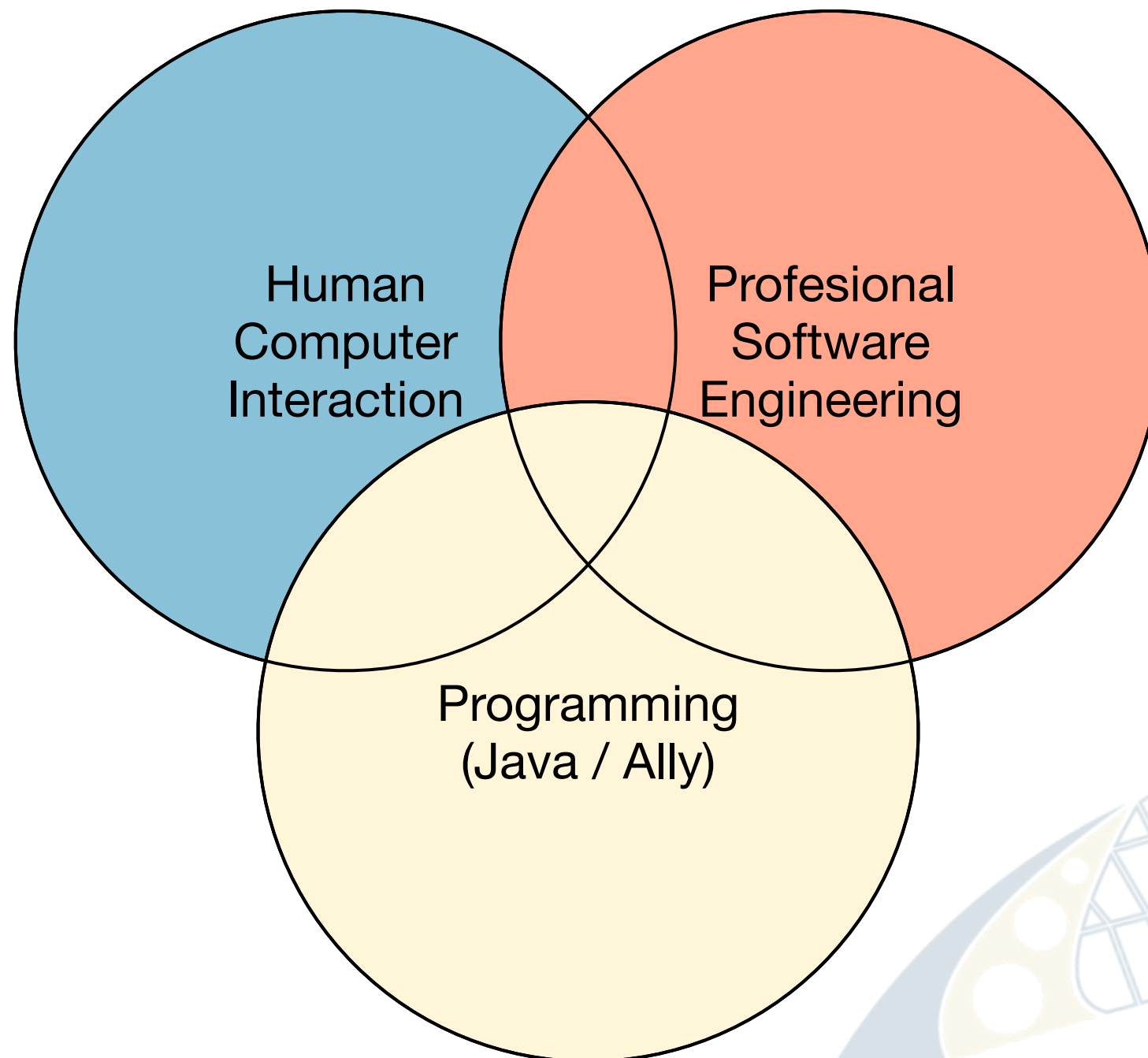
COURSE SUMMARY

CREATIVE SOFTWARE ARCHITECTURES FOR COLLABORATIVE PROJECTS



COURSE SUMMARY

THIS COURSE TOUCHED ON THREE DOMAINS



COURSE SUMMARY

IT'S BEEN A PACKED 15 WEEKS!

- We worked from two textbooks

- Big Java

- Ch 23 Internetworking

- Software Engineering

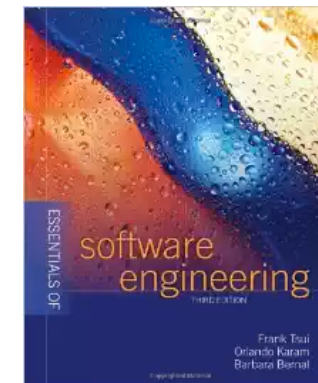
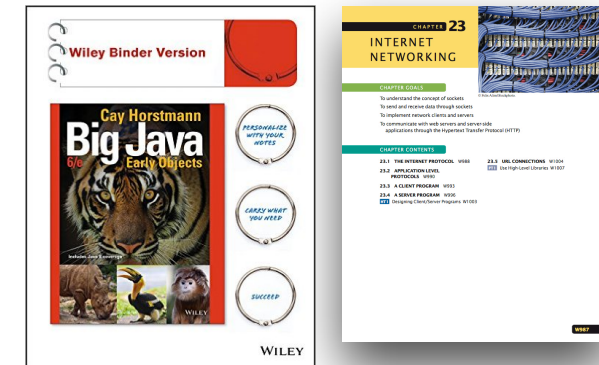
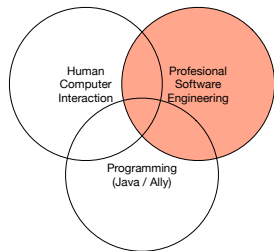
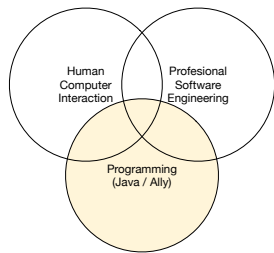
- Ch 1 Writing a Program

- Ch 2 Building a System

- Ch 3 Engineering Software

- Ch 4 Software Process Models - Waterfall

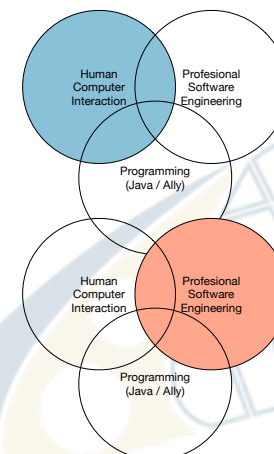
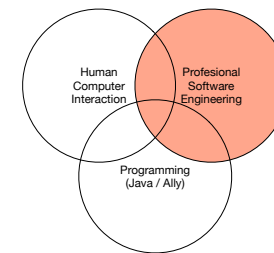
- Ch 5 Emerging Process Models - Agile



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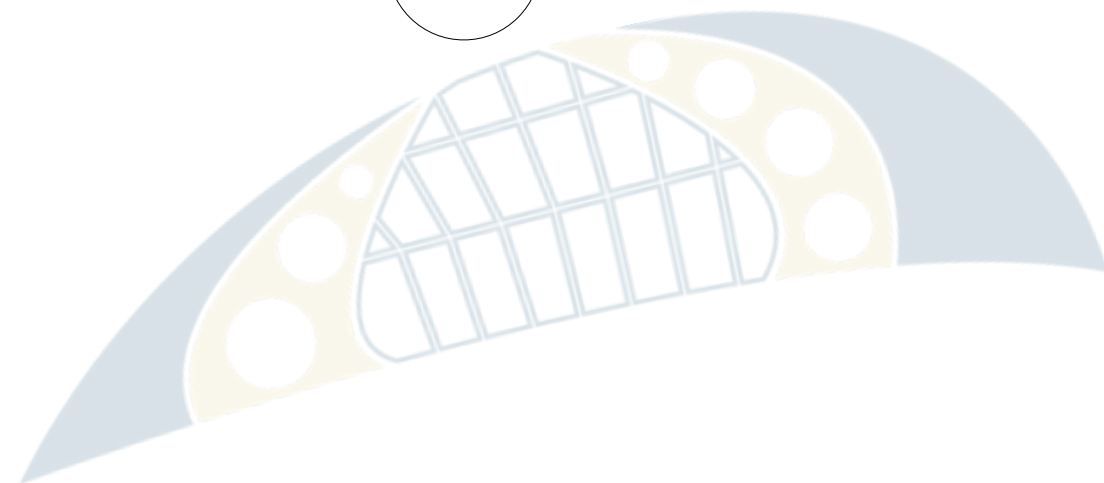
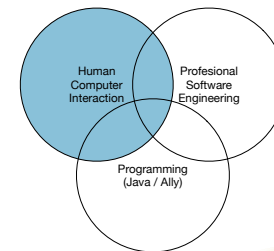
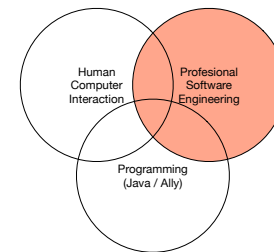
- Custom Topics
 - DNS
 - mtr, dig, host, wireshark
 - OSI Model of the network
 - TCP packet layout
 - IP packet layout
 - Contextual Inquiry - Design Process
 - Source Control Management



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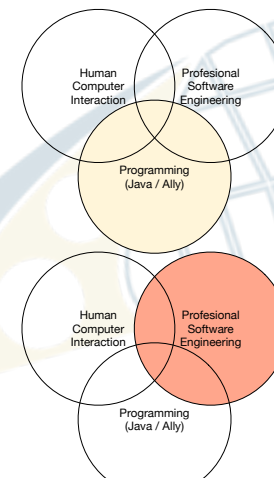
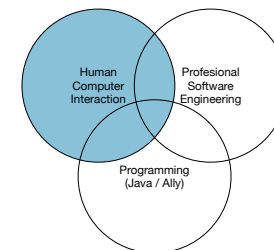
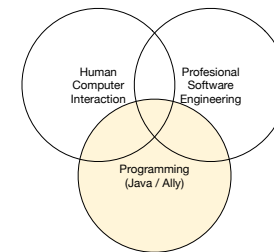
- Custom Topics
 - Github
 - Continuous Integration
 - Code Review
 - Paper Prototyping
 - Pop - almost paper prototyping
 - Brainstorming



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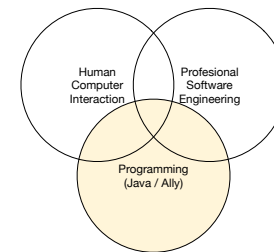
- Custom Topics
 - XML
 - JSON
 - Bootstrap
 - Responsive Websites
 - Basic Web Architecture
 - Browser, Webserver, Database
 - HTML/CSS/Javascript, php, mysql
 - Selenium



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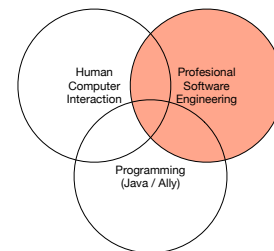
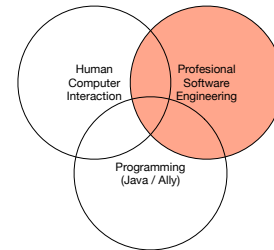
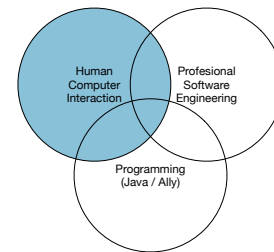
- Custom Topics
 - jQuery



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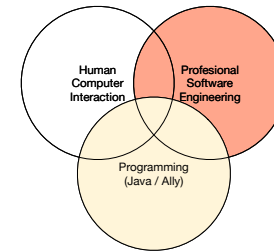
- Non Textbook Readings
 - How do you design?
- Lean Start-Up
- Mythical Man Month



COURSE SUMMARY

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- Practical Skills
 - Ticketing
 - Trello
- Agile Process
 - Team Meetings
- Pull Requests



COURSE SUMMARY

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- Faith and Learning
 - Global Food Waste Scandal Video
 - In-class prayers
 - Connections between how our approach to work can be motivated by a relationship to Christ



COURSE SUMMARY

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- Field Trips
 - Pinger
 - SB Foodbank
- Professional Presentations
 - ProCore
 - Ed/Mike



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- Assignments
 - 26 participation grades
 - 11 Online Homework
 - 1 stand-alone programming assignment
- Contextual Inquiry
- Contextual Inquiry Presentation
- Four rounds of software development
 - PR 1-4
- Retrospective discussion



COURSE SUMMARY

IT'S BEEN A PACKED 15 WEEKS!

- As an instructor I learned
 - More about Westmont CS students
 - Santa Barbara Food Bank Infrastructure
 - Continuous Integration Systems
 - What I like and don't like about software engineering
 - What motivates you all as learners



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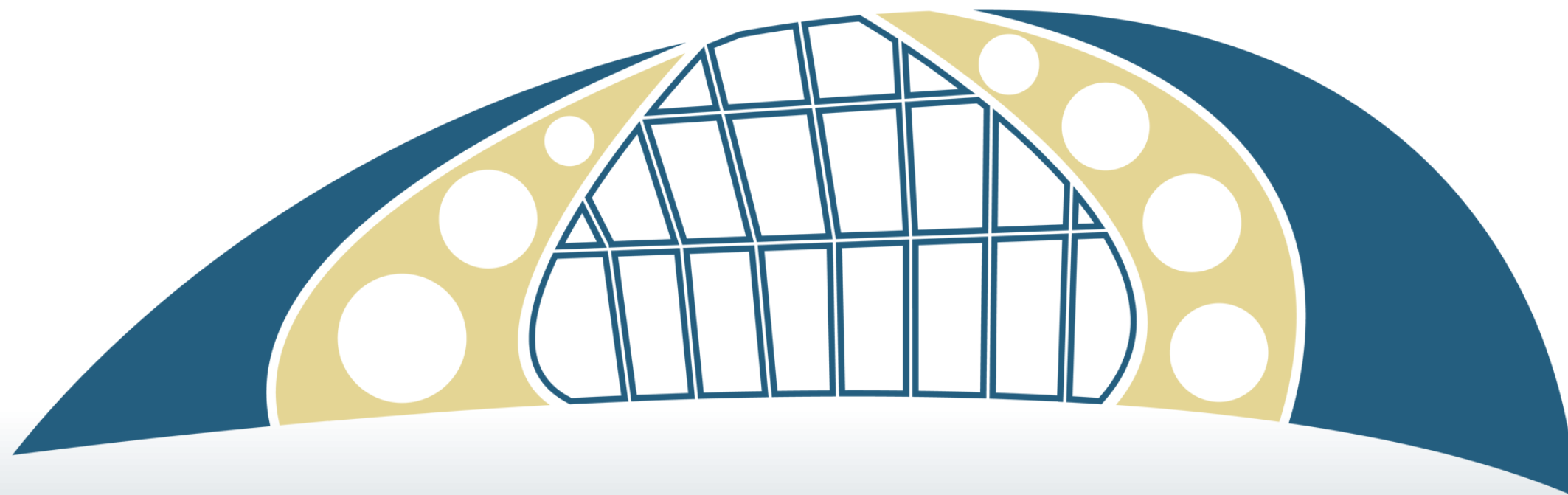


COURSE SUMMARY

CONGRATULATIONS!

- It is an honor and privilege to
 - be able to teach
 - be able to teach a subject that I love
 - in this place
 - to you





WESTMONT **INSPIRED**
— COMPUTING LAB —