

# BC-isit442 Class Overview And Structure

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This Document is Available on-line at:

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## Part I

# Message Processing: Concepts And Tools

## 1 What Do We Mean By Message Processing

What Do We Mean By Messaging Processing

- Take An Input Message
- Parse And Validate Its Headers
- Decompose It Body Parts
- Process And Act On Its Body Parts

## 2 MIME And History Of MIME

- MIME's place in the full picture
- MIME Conceptual Error
- MIME Evolution Problems

## Part II

# Message Processing Tools

## 3 nmh

What Is New MH?

- Made As A Compositional Mail Handler And Mail Reader
- Really Useful As A Batch Utility

## 4 Reformail

Reformail

- Extracts And Appends Mail Header Fields

## Part III

# Class Activities

## 5 Accessing Your Accounts On ByStar Mail Server

### 5.1 Your Domains, Your Account+Passwd

- `smtp.first.1.last.byname.net` – `imap.first.1.last.byname.net`
- Your account is the first field in the `/etc/passwd` file that was emailed
- Your passwd was emailed to you

### 5.2 ByStar Mail Server Basic Tests

- `ping smtp.first.1.last.byname.net`
- From Your Bellevue College Account Send Messages To `main@first.1.last.byname.net`
- Submit Server Tests Against `smtp.first.1.last.byname.net`

## 6 Bash Scripting – MailBot and MailInjector Exercise

### 6.1 MailBot Evolution

- `cd /isit442`
- `mv mailBot mailBot.20160223`
- `cp -r -p /opt/public/osmt/bin/mailBot .`

### 6.2 MailBot Functional Specification

- Read In An RFC-822 Message File
- Validate Its Headers
- Subject It To Some Access Control
- Decompose Its Body to file body-parts
- Process Its Body Parts – Print pdfs, fax pdfs

### 6.3 MailBot Deeper Dive

- Top-Down Design, Bottom-Up Implementation
- Managing Complexity, Cohesion, Consistency – mailInjector.sh
- Panel.org Omni-Available Features
- Iim Omni-Available Features
- Bashing – Procedural vs Functional Vs Object-Oriented

## Part IV

# Assignments

## 7 Review Of Last Week's Assignments

Two Teams Of 3.

Team 1 uses swaks. Team 2 uses ssmtp

Customize the mailInjector.sh to hit lightly against Bellevue College with your student mail credentials.

## 8 Next Set Of Assignments

- Using The By\* Account And Passwd Information Configure An Imap Client
- Using The By\* Account And Passwd Information Configure An SMTP-Submit Client
- Look Into Fetchmail For Integration With mailBot.sh

Continue your work on swaks and ssmtp

## References