**Schedule and outline**

**Texts**
- [DevOps for Web Development](#) (Abbreviated as DWD below)
- The phoenix project

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**Week 1**

- **Topics:**
  - Continuous Deployment & Integration
  - Git

- **Readings:**
  - What is Dev Ops
  - Youtube video
  - DWD-ch 1
  - Continuous Integration
  - Git intro
  - DWD-ch 2
  - [The phoenix project] Chapters 1 - 2

- Slides
- Slides
- Slides
- Assignment

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**Week 2**

- **Topics:**
  - AWS

- **Readings:**
  - The phoenix project up through chapter 6

- Aws notes
- Assignment
- Assignment

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**Week 3**

- **Topics:**
  - Jenkins

- **Readings:**
  - DWD-ch 2
  - DWD-ch 3
  - The phoenix project up through chapter 10

- Slides
- Assignment
- Assignment
- Assignment
**Week 4**

- Topics:
  - Jenkins - Deployment to Tomcat
- Assignment
- Readings:
  - reading phoenix up through chapter 14

**Week 5**

Exam 1

- Readings:
  - phoenix up through chapter 18

**Week 6**

- Topics:
  - Vagrant
  - AWS vagrant
- Slides
- Slides
- Slides
- Slides
- Vagrant and AWS Screens
- AWS AMI Screens
- Assignment
- Readings:
  - phoenix up through chapter 22

**Week 7**

- Topics:
  - Google Cloud Platform
  - Vagrant on GCP
- GCP Screens
- Assignment
- Readings:
  - phoenix up through chapter 26

**Week 8**

- Topics:
  - Automated Configuration (Configuration Management)
  - Ansible
  - Ansible Playbooks
  - Vagrant + Ansible
- Readings:
  - How ansible works
  - Benefits of CM
  - Ansible Getting Started (Also covered in my slides)
• Ansible Playbooks Intro
• More about playbooks
• phoenix up through chapter 30

• Slides
• Slides
• Assignment
• Assignment

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**Week 9**

• Review: Kahoot
• Exam 2 (Written in testing center, Hands-on in class)
• Topics:
  • AWS
• Readings:
  • Materials given
  • phoenix up through chapter 34
• AWS Assignment

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**Week 10**

• Topics:
  • AWS
• Readings:
  • Materials given
  • phoenix up through end of book
• AWS Assignment

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**Week 11**

• Topics:
  • AWS
• Readings:
  • Materials given
  • phoenix up through chapter 42
• AWS Assignment

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**Week 12**

• AWS Exam (Exam 3)
• Topics:
  • Docker
• Readings:
  • Docker
• Assignment

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**Week 13**

• Topics:
  • Continuous Monitoring
  • Nagios
• Readings:
  • Continuous Monitoring
• Video:
  • Monitoring for DevOps and Microservices
Week 14

- Microservices
- Readings:
  - Monolithic pattern
  - Microservice pattern
  - Breaking away from the monolith
  - The 12 factor app
- Slides
- Assignment

Thanksgiving

Week 15

Monday - Presentations * Ashby, Behunin, Carter, Cram, Eames, Ercanbrack, Faoasau
Wednesday - Presentations * Fawcett, Graff, Hammons, Hansen, Heckenliable, Henning, Johnson

Week 16

Monday - Presentations * Klafke, Leatherman, McCabe, Muusse, Nenbee, Santistevan, Seegmiller
Wednesday - Presentations/Review * Smith, Smith, Tyler, VanDeberg

Final - See date on syllabus