



**Idaho State  
University**

**Computer  
Science**

# Software Testing and Formal Methods

CS 4422 – Fall 2020

## **Academic Events**

- January 13 – Fall Classes Begin
  - January 20 – Martin Luther King Jr./Human Rights holiday (no classes)
  - January 21 – Last day to submit an application for May 2020 graduation
  - January 27 – Last day to register, add/drop, change section, or audit full semester courses.
  - February 10 – Summer 2020 Registration begins for ALL class levels
  - February 17 – Presidents' Day holiday (no classes)
  - March 2–6 – Mid-term Week
  - March 20 – Last day to WITHDRAW from full semester courses
  - March 23–27 – Spring Break (no classes)
  - March 30 – Last day to file application for August 2020 graduation
  - April 13 – Class level registration begins for Fall 2020
  - April 27 - May 1 – Closed Week
  - May 4–8 – FINAL Examinations
  - May 8 – Spring 2020 Classes End
  - May 9 – Commencement
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## Course Schedule

Week	Monday	Wednesday	Friday	Module
1 – 1/13	Introduction	Model-Driven Test Design	Practical	1
2 – 1/20	No Class	Test Automation	Practical	
3 – 1/27	Putting Testing First	Criteria Based Test Design	Practical	
4 – 2/03	No Class	Input Space Partitioning	Practical	2
5 – 2/10	Graph Coverage	Logic Coverage	Practical	
6 – 2/17	Syntax Based Testing	Managing Testing	Practical	
7 – 2/24	Test Implementation	Regression Testing	Practical	3
<b>Midterm Week</b>	Writing Test Oracles	Midterm Review	<b>Midterm Exam</b>	
9 – 3/09	Exam Review/Intro	MDA and OCL	Practical	4
10 – 3/16	Intro to OCL	Building Models I	Practical	5
<b>Spring Break</b>	No Class	No Class	No Class	
11 – 3/30	Building Models II	Implementing OCL I	Practical	
12 – 4/06	Implementing OCL II	The SOIL Language	Practical	6
13 – 4/13	OCL for MDA	Context and OCL I	Practical	7
14 – 4/20	Context and OCL II	Context and OCL II	Practical	
<b>Closed Week</b>	User Types	Advanced OCL	Final Review	8
<b>Finals Week</b>		<b>Final Exam</b>		

## Assignment Schedule

**Note:** All assignments are due at 0000h of the day they are marked due in the following table.

Week	Date	Assigned	Due
1	01/17: F		
2	01/24: F	HW 01	
3	01/31: F		
4	02/07: F	HW 02	HW 01
5	02/14: F		
6	02/21: F	HW 03	HW 02
7	02/28: F		
8	03/06: F	HW 04	HW 03
9	03/13: F		
10	03/20: F	HW 05	HW 04
11	04/03: F		
12	04/10: F	HW 06	HW 05
13	04/17: F		
14	04/24: F	HW 06	HW 06
15	05/01: F		