

COMP 3820SEF Web Application Development (3 cru)
COMP 3800SEF Web Applications: Design and Development (3 cru)
COMP S380F / S380W Web Applications: Design and Development (5 credits)
Course Guide

Instructor: ZHANG Jingyu, Flora (fzhang@hkmu.edu.hk, 2768 6887 (office))
Tutors: GUO Weiqing, Winnie (wguo@hkmu.edu.hk)
 FENG Jiahui (Jiahui) (s1365639@live.hkmu.edu.hk)
 ZHAO Yihan (Yihan)
Lecture: Tuesday 16:00 – 17:50, IOH / F0201
Lab Session: Thur 12:00 – 12:50, MUPC / C0411 (COMP 3820SEF P01, FENG Jiahui)
 Thur 11:00 – 11:50, MUPC / C0411 (COMP 3820SEF P02, FENG Jiahui)
 Mon 17:00 – 17:50, MUPC / C0411 (COMP S380F P21, ZHAO Yihan)
 Mon 12:00 – 12:50, MUPC / C0411 (COMP S380F P22, ZHAO Yihan)
 Thur 17:00 – 17:50, MUPC / C0411 (COMP S380F P23, GUO Winnie)
 Fri 10:00 – 10:50, MUPC / C0412 (COMP 3800SEF P01, FENG Jiahui)
 Fri 9:00 – 9:50, MUPC / C0412 (COMP 3800SEF P02, ZHAO Yihan)
 Wed 12:00 – 12:50, MUPC / C0411 (COMP 3800SEF P03, GUO Winnie)

* You are expected to attend **all** lectures and lab sessions.

Assessment Scheme

	COMP 3820SEF	COMP 3800SEF	COMP S380F	COMP S380W
1. Continuous Assessment	50%	50%	50%	30%
<ul style="list-style-type: none"> Group Project: <ol style="list-style-type: none"> Each group has at most 4 students (in the same course). All groups work on the same application; details to be announced. Submission deadline: April 13, 2026 (Week 14) (tentative) 	25%	25%	25% (with extra project requirements)	15%
<ul style="list-style-type: none"> Lab Sessions: <ol style="list-style-type: none"> The lab exercises are related to the practical skills for completing the group project, so attending the lab sessions and completing the take-home exercises will greatly ease your project work. 	0%	0%	0%	0%
<ul style="list-style-type: none"> Mid-term Test: <ol style="list-style-type: none"> March 10, 2026 (Tues) 16:15 – 17:30 (Week 9) (tentative) 	25%	25%	25%	15%
2. Exam	50%	50%	50%	70%

Note: To pass the course, you must get at least 40 marks for both the continuous assessment and exam.

Course Content (* subject to change)

Topics	
1	Overview of Web Applications, Java/Jakarta EE Server, Web Container
2	Servlet
3	JSP, JavaBean
4	Session
5	EL, JSTL
6	MVC Model 1 & Model 2
7	Spring MVC, Spring Boot
8	Data Access Object (DAO), Hibernate, Spring Data JPA
9	Filters, Spring Security
10	Dependency Injection (DI), Aspect-Oriented Programming (AOP)