

COMPSCI 220 Programming Methodology

Schedule

You should consult the UMass Academic Calendar¹ to make sure you are aware of important dates and events. The following are the weekly topics that will be covered during this course. *Be aware that the schedule is subject to change during the semester at the instructor's discretion.*

PA = Project Assignment

EA = Exercise Assignment

SFTI = Scala for the Impatient

RY = Ry's Git Tutorial

Week	Date	Day	Notes	Topic	Reading	Assignment
1	9/8	Tu		Introduction and Scala Basics	SFTI Ch. 1-4	
1	9/10	Th		Scala Arrays, Maps, and Tuples		
1	9/11	Fr		Discussion 01		PA1 Assigned
2	9/15	Tu		Scala Classes, Objects, and Version Control	SFTI Ch. 5-8; RY 1-3	
2	9/17	Th		Scala Packages, Documentation, and Testing		
2	9/18	Fr		Discussion 02		PA1 Due; PA2 Assigned
3	9/21	Mo	<i>Last day to Add/Drop</i>			
3	9/22	Tu		Inheritance and Strategy Pattern		
3	9/24	Th		Observer Pattern		
3	9/25	Fr		Discussion 03		PA2 Due
4	9/29	Tu		Factory and Singleton Pattern		
4	10/1	Th		Command Pattern		
4	10/2	Fr		Discussion 04 (UE1 Review)		UE1 Assigned
5	10/6	Tu		Adaptor Pattern		UE1 Due
5	10/8	Th		Template Method and State Pattern		
5	10/9	Fr		Discussion 05		

¹ <https://www.umass.edu/registrar/calendars/academic-calendar>

6	10/12	Mo	<i>Columbus Day</i>			
6	10/13	Tu	<i>Monday class followed</i>			
6	10/15	Th		Functional Programming		
6	10/16	Fr		Discussion 06		UE2 Assigned
7	10/20	Tu		Functional Programming		UE2 Due
7	10/22	Th	<i>Last day to drop with W or set P/F.</i>	Functional Data Structures		
7	10/23	Fr		Discussion 07		
8	10/27	Tu		Functional Data Structures		
8	10/29	Th		Handling Errors without Exceptions		
8	10/30	Fr		Discussion 08		
9	11/3	Tu		Strictness and Laziness		
9	11/5	Th		Purely Functional State		
9	11/6	Fr		Discussion 09		
10	11/10	Tu		Purely Functional Parallelism		
10	11/11	Wd	<i>Veterans' Day</i>	No Class		
10	11/12	Th	<i>Registration for S16</i>	Property-based Testing		
10	11/13	Fr		Discussion 10		UE3 Assigned
11	11/17	Tu		Parser Combinators		UE3 Due
11	11/19	Th		Parser Combinators		
11	11/20	Fr		Discussion 11		
12	11/24	Tu		Regular Expressions		
12	11/25	Wd	<i>Thanksgiving Recess</i>	No Class		
12	11/26	Th	<i>Thanksgiving Recess</i>	No Class		
12	11/27	Fr	<i>Thanksgiving Recess</i>	No Discussion		
13	12/1	Tu		Regular Expressions		
13	12/3	Th		Relational Databases and SQL		
13	12/4	Fr		Discussion 12		
14	12/8	Tu		SQL and Database Programming		
14	12/10	Th	<i>Last Class</i>	Wrap Up		

15	12/14	Mo	<i>Final Exams Begin</i>			
15	12/19	Sat	<i>Last Day of Final Exams</i>			