

Syllabus for *Applied Category Theory*

David Spivak and Brendan Fong

1 Basic information

Course number: 18.S097
Class Dates: January 14 – February 1, 2019 (except MLK day, Jan 21)
Class Time: MTWRF 14:05 – 14:55
Extra Discussion: MTWRF 15:00 – 15:30
Meeting Room: 34-304

Instructor Names: David Spivak & Brendan Fong
Instructor Office: 2-180

Grading: P/D/F (3 Units)
Class participation: 25%
Homework: 75%

Book: Fong & Spivak, *Seven Sketches in Compositionality*.
<http://math.mit.edu/~dspivak/teaching/sp18/7Sketches.pdf>

Tentative schedule		
Session	Topic	Key sessions
1 – 2	Chapter 1	Introduce yourself to an instructor, Session 1 or 2
3 – 4	Chapter 2	
5 – 6	Chapter 3	HW due Session 6 (Jan 22)
7 – 8	Chapter 4	
9 – 10	Chapter 5	HW due Session 10 (Jan 28)
11 – 12	Chapter 6	
13 – 14	Chapter 7	HW due Session 14 (Feb 1)

2 What to do immediately

1. Access the course webpage: <http://brendanfong.com/7sketches.html>.
2. Read the preface of the *Seven Sketches* book.
3. Introduce yourself to Brendan or David after class, either Jan 14 or Jan 15.

3 Grading

Attending lecture is mandatory, unless you have prior permission from an instructor. Class participation is 25% of your grade. How to participate? Ask questions! It's crucial that you ask questions when you don't understand.

Homework is worth 75% of your grade. It will be collected weekly, at the beginning of the class sessions listed above. Late homework will generally not be accepted. Just turn in what you have finished at the time the homework is due.