

Mathematics for Computer Science 6.042J/18.062J Spring 2018

WELCOME!... Dr. Zachary Abel





Albert R. Meyer, 2017



Mathematics for Computer Science 6.042J/18.062J Spring 2018

WELCOME!... Prof. Albert R Meyer



Former 6.042 instructor, current part-time instructor

Creator of much of 6.042's course material





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¹³ 7 10 5 4 14 11 2

1. Fundamental Concepts of Discrete Mathematics (sets, relations, proof methods,...) 2. Discrete Mathematical Structures (numbers, graphs, trees, counting...) 3. Discrete Probability Theory



12

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15

13 5 10 12 Strong Math Experience? 14 3 15 you have

- been on a school
 done Math cr rions (like Olv, Putnam, MAA)





Strong Math Experience?

Discuss 6.042 alternatives with the Instructor 6042-instructors@mit.edu



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Vocabulary

Quickie: What does "discrete" mean? (≠ "discreet")



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https://stellar.mit.edu/S/course/6/sp17/6.042/



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Reading Assignment

Readings & online problems in class calendar on Stellar due starting Friday



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13 MITx site: 6.042r 5 12 10 14 3 15 11 Register for session assignment by Friday midnight (find link on Stellar) site has videos, slides, online questions



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5 How the Class Works 14 2 Active learning in Teams MWF 1.5 hour sessions: Teams of same 6—8 students with Team Coach. Team learning through problems & discussion



6 9 13 7 12 10 5 3 1 4 14 15 8 11 2 How the Class Works

- required attendance
- videos, online problems most days
- four 90 min. evening midterms
- psets: weekly (not midterm weeks)



6	9	13	7
12		10	5
3	1	4	14
15	8	11	2

Teamwork

The good about teams:

- an efficient way to learn
- fun (for many students)
- like professional organizations
- learn to communicate
- cope with diversity
 ...USUALLY





Teamwork

The bad about teams:

- must be there prepared!
- unremitting

and sometimes:

very strong are slowed down
very weak left behind
deal with unpleasant people





Teamwork

Your team coach will be working to bring out the good and control the bad -- TAs & instructor too







6

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