Undergraduate Seminar in Discrete Mathematics Course 18.304, Spring 2011 Professor Fabrizio Zanello INCOMPLETE LIST OF REFERENCES

This a list of references, informal and by no means exhaustive, that you may want to consult in looking for good topics for your talks. It's in fact just a sample, both in terms of the texts and the possible subjects of interest for this course in Discrete Mathematics. Therefore, be sure to also take a look at other texts in Combinatorics and Discrete Math., and to possibly find some topic(s) that you, personally, like best in this area. Notice also that I will not include any journals in this list (with the possible exception of the more elementary Amer. Math. Monthly). Those will be introduced at a later stage, when you are ready to give your presentations on materials from research articles.

- 1. G. Andrews' "The theory of partitions" (1976, or the 1998 reprint)
- I. Pak's "Partition bijections, a survey" (Ramanujan Journal, 2006, no. 1, pp. 5-75. Also available on Dr. Pak's page at UCLA)
- 3. R. Stanley's "Enumerative Combinatorics", Vol. I (an almost final draft of the second edition is currently available on Dr. Stanley's website)
- 4. R. Diestel's "Graph Theory" (GTM, Springer, 4th Edition, 2010)
- 5. My joint monograph "On the Shape of a pure *O*-sequence" (on the arXiv it's paper 1003.3825; soon the same link will contain the final version to appear as a Memoir of the Amer. Math. Soc.)
- 6. E. Miller-B. Sturmfels' "Combinatorial Commutative Algebra" (GTM, no. 227, Springer, 2005)
- 7. N. Alon-J. Spencer's "The probabilistic method", third edition, Wiley
- 8. M. Aigner-G. Ziegler's "Proofs from the book", third edition, Springer (possibly only for the first seminar, and necessarily on something concerning Discrete Math.)
- 9. Amer. Math. Monthly (again, possibly only for the first seminar, and necessarily on something concerning Discrete Math.)
- 10. Any topic you like in Combinatorics/Discrete Math.!