

**DM201: Graph algorithms with applications — Weekly note 11**

**Stuff covered May 6+8:**

- Exercises 3.55 and 3.56 in BG
- Exercises 3.81, 3.82, 3.83 in BG
- If there is time : BG section 10.2.
- BG sections 8.7-8.8.3 In Section 8.7 we did not cover Corollary 8.7.4 and Theorems 8.7.5 and 8.7.6. In Section 8.8.2 we did not cover Theorems 8.8.4 and 8.8.5.

**May 13:**

- Submodular proof of Nash-Williams's orientation theorem. BG 8.8.4
- Submodular proof of the Lucchessi-Younger Theorem. BG 8.8.4
- Nash-Williams strong orientation theorem. BG 8.6. We will only state the result and give the formulation in terms of good vertex pairings.
- Colour-coding. BG 10.2

**May 15:**

- Return of projects
- Homomorphisms BG 12.5