

## Network Optimization (Fall 2024): Homework 2

- AMO stands for the text (Ahuja, Magnanti, Orlin). Exercises and page numbers are listed from AMO.
- Exercises marked with a [G] target the graduate students (Math 566), but undergrads (Math 466) can attempt them for extra credit.
- The total points (given in parentheses) add up to 120. Math 566 students will be graded for 115 points, and Math 466 students for 95 points.
- **You must email your submission as a PDF file to [kbala@wsu.edu](mailto:kbala@wsu.edu).** You are welcome to write answers by hand, and scan the writings (or take pictures of your writings) **into a PDF file**.
- **Your file name should identify you in the following manner. If you are Leopold “Butters” Stotch, you should name your submission LeopoldStotch\_Hw2.pdf. If you want to add more bits to the title, e.g., Math566, you could name it LeopoldStotch\_Math566\_Hw2.pdf, for instance. But you should start the file name with LeopoldStotch. And please avoid white spaces in the file name.**
- Begin the SUBJECT of your email submission with the same **FirstnameLastname**, expression, e.g., “LeopoldStotch Hw2 submission”.
- **This homework is due by 11:59 PM on Thursday, September 5.**

1. (15) AMO 2.5 (page 48).
2. (20) AMO 2.8 (page 49).
3. (20) AMO 2.14 (page 49).
4. (20) AMO 2.32 (page 50).
5. (20) AMO 2.34 (page 50).
6. (25) [G] AMO 2.38 (page 51).