This week, we'll see how optimization can be used to find a sports schedule and to find a perfect match in online dating.

In the first lecture, we'll discuss how almost every single sports league uses optimization to design their season schedules.

We'll extend the idea of linear optimization to integer optimization, a powerful way to model decisions.

In the second lecture, we'll talk about how eHarmony, the online dating site, combines predictive models with optimization models to suggest matches.

Let's get started.