

ELL700: Linear Systems Theory

July 24, 2018

1 Syllabus

1. Introduction
2. Review of mathematical preliminaries
3. Input-output systems
4. Controllability/Observability
5. Eigenvalues, poles, stability
6. Lyapunov functions
7. State-feedback, pole placement
8. Observers
9. Controlled invariance
10. Disturbance decoupling
11. LQR optimal control