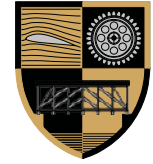


**DEPARTMENT OF CIVIL AND MECHANICAL ENGINEERING
CE350: INFRASTRUCTURE ENGINEERING**



Course Schedule – AY 19-2

| | Lesson | | Date | Subject | Assignment |
|-------------------------------|---------------|--------|-------------|--|---------------------------------------|
| Infrastructure Systems | 1 | IS-1 | 09 JAN | An Introduction to Infrastructure | |
| | 2 | IS-2 | 11 JAN | Critical Infrastructure Sectors | LSN 2 Reading Assignment |
| | 3 | IS-3 | 15 JAN | Network Theory | LSN 3 Reading Assignment |
| | 4 | IS-4 | 17 JAN | Network Modeling | LSN 4 Reading Assignment |
| | 5 | IS-5 | 22 JAN | Component Model | LSN 5 Reading Assignment |
| | 6 | IS-6 | 24 JAN | Assessing Infrastructure Systems | LSN 6 Reading Assignment |
| | 7 | IS-7 | 28 JAN | Infrastructure Resilience | LSN 7 Reading Assignment |
| | 8 | IS-8 | 01 FEB | Stakeholder Analysis | LSN 8 Reading Assignment |
| | 9 | IS-9 | 04 FEB | Solid Waste Management and Social Justice | LSN 9 Reading Assignment |
| Water | 10 | W-1 | 06 FEB | Water Resources and Distribution Systems | Problem Set 1 |
| | 11 | W-2 | 08 FEB | Dams and Levees | LSN 11 Reading Assignment |
| | 12 | W-3 | 12 FEB | Water System Demand | LSN 12 Reading Assignment |
| | 13 | W-4 | 14 FEB | Water Treatment Methods and Models | LSN 13 Reading Assignment |
| | 14 | W-5 | 19FEB | Wastewater Treatment Methods and Models | LSN 14 Reading Assignment |
| | 15 | W-6 | 21 FEB | Water Treatment Plant Lab | REPORT TO LUSK RESERVOIR NORTH END |
| | 16 | W-7 | 25 FEB | Water Resilience and Assessment | Problem Set 2 |
| | 17 | W-8 | 01 MAR | Water Sustainability | |
| | 18 | WPR-1 | 04 MAR | Written Partial Review 1 | WPR I |
| Electricity | 19 | E-1 | 06 MAR | Introduction to the Energy Sector | LSN 19 Reading Assignment |
| | 20 | E-2 | 08 MAR | The Electrical System: An Overview | LSN 20 Reading Assignment |
| | 21 | E-3 | 18 MAR | Electrical System Demand | LSN 21 Reading Assignment |
| | 22 | E-4 | 20 MAR | Generation of Electricity and Renewables | LSN 22 Reading Assignment |
| | 23 | E-5 | 22 MAR | Electrical Transmission | LSN 23 Reading Assignment |
| | 24 | E-6 | 26 MAR | Distribution and Use of Electricity | LSN 24 Reading Assignment |
| | 25 | E-7 | 29 MAR | Power Consumption Lab | |
| | 26 | E-8 | 02 APR | Energy Sustainability | Recon Plan Due |
| | 27 | D-1 | 04 APR | Field Recon Trip (Tentative) | |
| Transportation | 28 | E-9 | 08 APR | Household Power Exercise | |
| | 29 | T-1 | 10 APR | Introduction to Transportation | Problem Set 3 |
| | 30 | T-2 | 12 APR | System Analysis I – Trip Generation and Distribution | LSN 30 Reading Assignment |
| | 31 | T-3 | 16 APR | System Analysis II – Modal Analysis | |
| | 32 | T-4 | 18 APR | System Analysis III – Flow Modeling | Problem Set 4 |
| | 33 | T-5 | 22 APR | Railroads I | |
| | 34 | T-6 | 24 APR | Railroads II | |
| | 35 | WPR- 2 | 26 APR | Written Partial Review 2 | WPR II |
| Doctrine | 36 | D-2 | 29 APR | Infrastructure in Doctrine and Reconnaissance I | |
| | 37 | D-3 | 03 MAY | Briefings | Infrastructure Recon Report |
| | 38 | D-4 | 06 MAY | Briefings | |
| | 39 | D-5 | 08 MAY | Infrastructure in Doctrine and Net Zero | |
| | 40 | Review | 10 MAY | Course Review and the Road Ahead | Problem Set 5 |

This version is dated 12/4/18. Future versions will be published if needed and will override this version.