## Course Schedule (tentative)

| weeks | Topics | *cf.* |
|---|---|---|
| Week 1 | **Holomorphic Functions** | Chapter 1, 2 [Tang1] |
| Week 2 | **Power Series** | Chapter 3 [Tang1] |
| Week 3 | **Laurent Series and Residues** | Chapter 3 [Tang1] |
| Week 4 | **Ordinary Differential Equations** | Chapter 5 [Tang2] |
| Week 5 | **Applications of ODE** | Chapter 5 [Tang2] |
| Week 6 | **Laplace Transform** | Chapter 6 [Tang2] |
| Week 7 | **Applications of Laplace Transform** | Chapter 6 [Tang2] |
| Week 8 | **Fourier Series** | Chapter 1 [Tang3] |
| Week 9 | **Sturm-Liouville Problems** | Chapter 3 [Tang3] |
| Week 10 | **Bessel Function** | Chapter 4 [Tang3] |
| Week 11 | **Laplace equations** | Chapter 5, 6 [Tang3] |
| Week 12 | **Calculus of Variations** | Chapter 7 [Tang3] |