COMPLEX ANALYSIS (MATH 385-MATH 487)

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| 1,4$\rightarrow $25 | 1.1 | **Chapter 1****(complex numbers)** |
| 1$\rightarrow $11,13 | 1.2 |
| 1$\rightarrow $7,10$\rightarrow $13,15$\rightarrow $19 | 1.3 |
| 1$\rightarrow $5,7$\rightarrow $14,20,21 | 1.4 |
| 1$\rightarrow $5,7,9,10,11 | 1.5 |
| 1,2,3 | 2.1 | **Chapter 2****(analytic functions)** |
| 5,6,7,9,10,9$\rightarrow $19 | 2.2 |
| 1$\rightarrow $4,7,9$\rightarrow $11,13 | 2.3 |
| 1$\rightarrow $4,6$\rightarrow $14 | 2.4 |
| 1$\rightarrow $8,18 | 2.5 |
| 1$\rightarrow $5,7,9$\rightarrow $15,17,18,19,21 | 3.1 | **Chapter 3****(elementary functions)** |
| 1,3,4,5,6,8,9,10,11,13,14 | 3.2 |
| 1,2,3,5,6,11 | 3.3 |
| 1,7,8,9,10,11 | 4.1 | **Chapter 4****(complex integration)** |
| 6,8,9,10,11,14,16,17 | 4.2 |
| 1,2,7 | 4.3 |
| 10,11,13,15,17 | 4.4 |
| 1,2,3,4,7,10,11, | 4.5 |
| 1,2,3,5,6,8,17,19 | 4.6 |
| 1,2,7,8,10,11 | 5.1 | **Chapter 5****(series representations for analytic function)** |
| 1(d,e,f),2,4,5(b,d),8(a) | 5.2 |
| 1,3,5(a,c),6,9,10 | 5.3 |
| 1,3,4,5,13 | 5.5 |
| 1,2,3,5,6,12 | 5.6 |
| 1(a,d,f),2,3(a,d,e,g),4,5,6 | 6.1 | **Chapter 6****(residue theory)** |
| 1,3,4,7 | 6.2 |