

NORTH CAROLINA STATE UNIVERSITY

Department of Mathematics

MA241 Daily/Weekly Schedule

Summer Sessions; 2019

Tests: There are 3 scheduled tests during each summer session

Textbook: Calculus II for Engineers and Scientists (Franke, Griggs, Norris: accessible via WebAssign; \$45)

Class days: This class is scheduled to meet everyday for two hours; you will need every minute of that time to do justice to the course material

WebAssign Homework Assignments: Instructors will require their students to use WebAssign for homework. It is recommended that it count for 5% - 10% of the course grade. Students pay a nominal fee to use WebAssign (<http://webassign.ncsu.edu>) The e-book for the course is also linked to the WebAssign page under **RESOURCES**. The e-book is purchased via WebAssign. In another link under RESOURCES are the course videos.

MA241 Summer 2019 Schedule: SUMMER II

- June 24: Course Introduction; Chapter 0
June 25: 1.1 Arc Length
June 26: 1.2 Average Value of a Function; begin 1.3 Work
June 27: 1.3 Work
June 28: 2.1 Trigonometric Integrals
- July 1: 2.2 Trigonometric Substitution; test review
July 2: **TEST #1**; begin 2.3 Partial Fractions
July 3: 2.3 Partial Fractions
July 4: *Independence Day, (holiday; no classes)*
July 5: 2.4 Table of Integrals; begin 2.5 Numerical Integration
- July 8: 2.5 Numerical Integration; 2.6 Improper Integrals
July 9: 3.1 Intro to Differential Equations
July 10: 3.2 Separable DEs; begin 3.3 Applications of DEs
July 11: 3.3 Applications of DEs; test review
July 12: **TEST #2**; begin 3.4 Second Order DEs (homogeneous)
- July 15: 3.4 Second Order DEs (homogenous)
July 16: 3.5 Second Order DEs (non-homogeneous)
July 17: 3.6 Applications of Second Order DEs
July 18: 4.1 Sequences; 4.2 Infinite Series
July 19: 4.3 Convergence Tests
- July 22: 4.4 Alternating Series; 4.5 Absolute Convergence; test review
July 23: **TEST #3**; 4.5 Ratio Test
July 24: 4.6 Power Series; 4.7 Functions as Power Series
July 25: 4.8 Taylor and Maclaurin Series
July 26: 4.9 Taylor Polynomials; exam review
- July 29, July 30: Final Exams**