

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 I

- May 15: course introduction; Chapter 0  
May 16: 1.1 Arc Length  
May 17: 1.2 Average Value of a Function; begin 1.3 Work
- May 20: 1.3 Work  
May 21: 2.1 Trigonometric Integrals  
May 22: 2.2 Trigonometric Substitution; test review  
**May 23:** **TEST #1**; begin 2.3 Partial Fractions  
May 24: 2.3 Partial Fractions
- May 27: *Memorial Day (holiday, no classes)*  
May 28: 2.4 Table of Integrals; begin 2.5 Numerical Integration  
May 29: 2.5 Numerical Integration; 2.6 Improper Integrals  
May 30: 3.1 Intro to Differential Equations  
May 31: 3.2 Separable DEs; begin 3.3 Applications of DEs
- June 3: 3.3 Applications of DEs; test review  
**June 4:** **TEST #2**; begin 3.4 Second Order DEs (homogeneous)  
June 5: 3.4 Second Order DEs (homogenous)  
June 6: 3.5 Second Order DEs (non-homogeneous)  
June 7: 3.6 Applications of Second Order DEs
- June 10: 4.1 Sequences; 4.2 Infinite Series  
June 11: 4.3 Convergence Tests  
June 12: 4.4 Alternating Series; 4.5 Absolute Convergence; test review  
**June 13:** **TEST #3**; 4.5 Ratio Test  
June 14: 4.6 Power Series; 4.7 Functions as Power Series
- June 17: 4.8 Taylor and Maclaurin Series  
June 18: 4.9 Taylor Polynomials; exam review  
**June 19, 20: Final Exams**