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