

NORTH CAROLINA STATE UNIVERSITY

Department of Mathematics

MA241 Daily/Weekly Schedule

Summer Sessions; 2020

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 every day for two hours; you will need every minute of that time to do justice to the course material (Since we are teaching remotely this summer, plan to provide at least two hours per day of some type of instruction, lecture videos, class meetings, problem sessions, etc.)

WebAssign Homework Assignments: Instructors will require their student 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 2020 Schedule: Summer I

May 13	Course introduction: chapter 0
May 14	1.1 Arc Length
May 15	1.2 Average Value of a Function; begin 1.3 Work
May 18	1.3 Work
May 19	2.1 Trigonometric Integrals
May 20	2.2 Trigonometric Substitution; test review
May 21	Test 1; begin 2.3 Partial Fractions
May 22	2.3 Partial Fractions
May 25	Memorial Day Holiday – no class
May 26	2.4 Table of Integrals; begin 2.5 Numerical Integration
May 27	2.5 Numerical Integration; 2.6 Improper Integrals
May 28	3.1 Intro to Differential Equations
May 29	3.2 Separable Des; begin 3.3 Applications of DEs

June 1	3.3 Applications of DEs; test review
June 2	Test #2; begin 3.4 Second Order DEs (homogeneous)
June 3	3.4 Second Order DEs (homogeneous)
June 4	3.5 Second Order DEs (non-homogeneous)
June 5	3.6 Applications of Second Order DEs
June 8	4.1 Sequences; 4.2 Infinite Series
June 9	4.3 Convergence Tests
June 10	4.4 Alternating Series; 4.5 Absolute convergence; test review
June 11	Test #3; 4.5 Ratio Test
June 12	4.6 Power Series; 4.7 Functions as Power Series
June 15	4.8 Taylor and McLaurin Series
June 16	4.9 Taylor Polynomials; exam review (LAST DAY OF CLASSES)
June 17	Final Exams
June 18	Final Exams