

MA 121 - Elements of Calculus
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF MATHEMATICS

Summer 2019

TEXT: Bittinger, M. L., Calculus (11th ed.)

MA 121 is a three-credit-hour course. It is a terminal, one-semester course in calculus designed for those students whose degree programs require a single calculus course. The typical additional requirement is MA114. Overall, about half of the students are in economics and business, a quarter to a third are in biological sciences and animal science, and the remainder are scattered among design, forestry, elementary education and textiles.

This course is not a simplified MA141 or even MA131. It is not easier...rather, different. It covers more topics, in less depth, than either of those two courses. We should emphasize concept and ideas, strive for plausibility rather than rigor, and push for as much manipulative skill as the time allows. Applications should be emphasized (the text is excellent in this regard). Also, to be emphasized are exponential functions and their applications, derivatives as rates of change, integrals as areas and as total change, simple models via differential equations, and computational aspects. These students are in areas where multivariate mathematics is important. Trigonometry is not addressed in this course.

Students sometimes appear in MA121 classes who have poor backgrounds in algebra. For these, and others as well, running review is helpful. However, MA107 (or the equivalent) is prerequisite to this course, and it is reasonable to expect this background. Poorly prepared students should be encouraged to go back to MA107.

On the whole, this text has received a very favorable response from those who have taught from it over the past several years. Students have found it quite readable. The exercises and end of chapter tests seems to be helpful. However, there is a lot of material to be taught/learned. Some sections are rather long and some selection of material may be necessary. This is a stimulating and interesting course to teach. Your experience serves as a valuable aid to future instructors. Please give any comments, criticisms, etc. to John Griggs, the course coordinator.

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MA 121- ELEMENTS OF CALCULUS
SUMMER SESSIONS 2019

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SUMMER I	SECTIONS	SUMMER II
Wed. May 15	R.1,R.2	Mon. June 24
Thurs. May 16	R.3, R.4	Tues. June 25
Fri. May 17	R.5, 1.1	Wed. June 26
Mon. May 20	1.2, 1.3	Thurs. June 27
Tues. May 21	1.4, 1.5	Fri. June 28
Wed. May 22	1.6, Review	Mon. July 1
Thurs. May 23	TEST#1	Tues. July 2
Fri. May 24	1.7,1.8	Wed. July 3
Tues. May 28	2.1, 2.2	Fri. July 5
Wed. May 29	2.3, 2.4	Mon. July 8
Thurs. May 30	2.5, 3.1	Tues. July 9
Fri. May 31	3.2, 3.3	Wed. July 10
Mon. June 3	3.4, Review	Thurs. July 11
Tues. June 4	TEST#2	Fri. July 12
Wed. June 5	3.5, 4.1	Mon. July 15
Thurs. June 6	4.2, 4.3	Tues. July 16
Fri. June 7	4.4,4.5	Wed. July 17
Mon. June 10	5.1, 5.2	Thurs. July 18
Tues. June 11	5.3, 5.6	Fri. July 19
Wed. June 12	5.7, Review	Mon. July 22
Thurs. June 13	TEST#3	Tues. July 23
Fri. June 14	6.1,6.2	Wed. July 24
Mon. June 17	6.3,6.4	Thurs. July 25
Tues. June 18	Exam Review	Fri. July 26
Thurs. June 19	Final Exams	Mon. July 29
Fri. June 20	Final Exams	Tues. July 30