**Prerequisite:** Math 1710 or equivalent

**Book:** Calculus by Briggs and Cochran

**Professor:** Neal Brand

**Office:** GAB 417B  M 2:30-3:50,  T 10:00-11:50,  W 8:30-9:50,  F 12:30-2:00 and by appointment.

Please use these hours to ask questions of your instructor. Do not just drop in at other times since your instructor will most likely be busy with other responsibilities. If you need to see your instructor at another time, make an appointment in advance.

**Grading:** Grades are based on three regular exams, homework, one project, and a final. The homework is worth a total of 100 points. You will probably receive over 20 homework assignments, each worth 5 points, but only the best 20 assignments count. If there are fewer than 20 assignments, then points will be added to make the total possible 100. Projects are extended homework assignments that require much more effort and time than regular homework assignments. The project is worth 100 points. Each regular exam is worth 100 points and the final exam is worth 200 points. This gives you a total of 700 possible points. To earn an A it is sufficient to make a total of 630 points, 560 for a B, 490 for a C, and 420 for a D. You must also complete the online course evaluation as described below.

**Course Evaluation:** The SETE website will be open later in the semester for you to evaluate the course (dates to be announced later). You are required to go to the website and complete an evaluation of the course sometime during the open period. Although your instructor will receive a list of who completed the evaluation forms before grades are turned in, he will not receive any other information about the evaluations until after the grades are turned in. Your instructor will receive no information that would link you to your specific answers or comments. The university, the mathematics department, and your instructor take your course evaluation input very seriously.

**Regular Exams:** The regular exams will be given in class, most likely on February 18, March 27 and April 26. The final exam is scheduled for May 10 (Friday) at 8:00 in the classroom.

**Homework:** Homework will be assigned from the book and possibly from handouts. The assignments will be posted on the web. You are expected to turn in neatly written
homework that shows all essential work. If the grader has trouble reading the
homework, then the homework will be returned with a zero.

**Web Page:** From the UNT home page follow through the links through the College of
Arts and Sciences, the Mathematics Department and Neal Brand's home page to find
the Math 1720 home page. You will find homework assignments, and other information
concerning this class at that site. The URL is [Brand 1720 Syllabus - Spring 2013.htm](http://www.unt.edu/oda)

**Attendance:** It is important that you come to class in order to master the material. As
long as you have fewer than three unexcused absences, there will be no penalty for a
missed class.

**Extra Credit:** Do not expect to be able to do extra credit work to help your grade either
before or after the final exam. There will be no extra credit for this course other than
perhaps an extra problem on an exam. Please do not ask for extra credit work to help
your grade. Your best bet to help your grade is to do the required work at the time it is
assigned.

**Disabilities:** The University of North Texas makes reasonable academic
accommodation for students with disabilities. Students seeking accommodation must
first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If
a disability is verified, the ODA will provide you with an accommodation letter to be
delivered to faculty to begin a private discussion regarding your specific needs in a
course. You may request accommodations at any time, however, ODA notices of
accommodation should be provided as early as possible in the semester to avoid any
delay in implementation. Note that students must obtain a new letter of accommodation
for every semester and must meet with each faculty member prior to implementation in
each class. For additional information see the Office of Disability Accommodation
website at [http://www.unt.edu/oda](http://www.unt.edu/oda). You may also contact them by phone at 940.565.4323.

**Cheating:** No cheating will be tolerated. Cheating includes receiving help from anyone
or anything that is not specifically allowed on an exam, project or final exam. For
example, calculators are not allowed on exams and using one would constitute
cheating. On the other hand, you are encouraged to work together on the regular
homework assignments as long as everyone participates and no one just copies the
answers. On the projects, you are not to get help from any outside source except the
instructor. You will find more details regarding what is allowed on the project when it is
assigned. Anyone caught cheating will receive an F for the course. Furthermore, a
letter will be sent to the appropriate dean. I expect no cheating in this class.

**Last Comment:** Anything on this syllabus is subject to change at the discretion of the
instructor.
Homework and Reading Assignments:  Homework is to be turned at the beginning of class on the days indicted below. Follow the guidelines at http://www.math.unt.edu/~brand/class/1720/2007Spring/homeworkexp.html when preparing your homework to be graded. Soon after class each day the homework assignments will be posted here. You should do all the homework listed, but turn in only the indicated problems. The reading assignments are to be completed on the days indicated below.

- **January 14**
  - First day of class - introduction.
- **January 16**
  - Read Sections 7.1 and 7.2
- **January 18**
  - Start working on problems that are due on January 23.
- **January 23**
  - Page 396 7, 9, 11, 12, 13, 14, 15, 17, 19, 20, 22, 39, 41, 43, 45, 46, 47, 55, 66, 81
  - Turn in the even numbered problems in the list, 55, and Use the definition of logₐ in terms of ln and the properties developed for ln to prove that logₐ(xy) = logₐx + logₐy for any positive x and y.
- **January 25**
  - Page 396 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 37, 38, 56, 59, 60, 82, Turn in the evens
- **January 28**
  - Page 416 11, 12, 13, 14, 17, 18, 22, 23, 28, 30 Turn in the evens
- **January 30**
  - Read Section 7.5
- **February 1**
  - Continue Section 7.5 on Inverse Trigonometric Functions
  - Read Appendix C on Hyperbolic Functions
  - Page 429 11, 13, 15, 17, 18, 19, 21, 22, 25, 29, 30, 33, 35, 36, 39, 40, 41,
43, 44, 45, 46, 47, 49, 51, 53, 54, 55, 56, 64, 65, 67, 68, 69, 71, 73, 76
Turn in the even numbered problems
- February 4
  Read Section 9.1 An overview of Sequences and Series
- February 6
  Read Section 9.2 and pay particular attention to the Monotone Convergence Theorem
- February 8
  Read Section 9.3 Infinite Series
- February 11
  Continue Section 9.3 Infinite Series
- February 13
  Review for Exam 1
- February 15
  Review for Exam 1
- February 18
  Exam 1
- February 20
  Read Section 9.4 The Divergence and Integral Tests
- February 22
  Continue Section 9.4
- February 25
  Read Section 9.5 The Ratio, Root, and Comparison Tests
- February 27
  Continue Section 9.5
- March 1
  Continue Section 9.5
- March 4
  Determining Which Test to Use
- March 6
  Read Section 9.6
- March 8
  Read Section 10.1
  Read Section 10.2
- March 18
  Continue Section 10.2
- March 20
  Read Section 10.3
- March 22
  Continue Section 10.3
- March 25
  Review for Exam 2
- March 27
  Exam 2
- March 29
April 1
  Binomial Series
  Read Section 10.4
April 3
  Review Antidifferentiation Formulas
April 5
  Read Section 10.1 Integration by Parts
April 8
  Continue Integration by Parts
April 10
  Read Section 8.4 Partial Fractions
April 12
  Read Section 8.3 Trigonometric Substitutions
April 15
  Continue Trigonometric Substitutions
April 17
  Read Section 8.5 Other Integration Strategies (or Now to Cheat when You Integrate)
April 19
  Last Integration Technique or the tan(x/2) Substitution
April 22
  Review for Exam 3
April 24
  Review for Exam 3
April 26
  Exam 3
April 29
  Review for Final
May 1
  Review for Final
May 10
  Final Exam (8:00-10:00)

Return to Neal Brand's homepage.