

Mathematics 176

Basic Technical Mathematics 2

for the Mechanical Access Program

Quarter 2, 2003

Instructor: Dr. George Ballinger

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Schedule:

8:30 am – 9:20 am

Math 176-01

(Mech)

CC121

Math 176-01

(Mech)

CC121

Math 176-01

(Mech)

CC121

Math 176-01

(Mech)

CC121

9:30 am – 10:20 am

Math 176-01

(Mech)

CC121

Math 176-01

(Mech)

CC121

Math 176-01

(Mech)

CC121

Math 176-01

(Mech)

CC121

10:30 am – 11:20 am Office Hour Office Hour Office Hour Office Hour

11:30 am – 12:20 pm Lunch Lunch Lunch Lunch

12:30 pm – 1:20 pm

Math 164-01

(Comp)

CC104

Math 164-01

(Comp)

TEC177

Math 164-01

(Comp)

CC104

Math 164-01

(Comp)

CBA101

1:30 pm – 2:20 pm

Math 164-02

(Comp)

CC104

Office Hour Office Hour Office Hour

2:30 pm – 3:20 pm

Math 164-02

(Comp)

CC121

Math 164-02

(Comp)

CC121

Math 164-02

(Comp)

CC121

Important Dates: January 20 Tuition fees due date

February 14 Reading Break (no classes)

February 24 Withdrawal date deadline

March 21 Last day of classes

March 24-28 Final Exam Period (specific date, time, and location TBA in February)

Calendar Description: This course follows MATH 172 in the Mechanical Access program. Topics: functions and their graphs, graph transformations, polynomial, rational, exponential and logarithmic functions, conics, circular trigonometric functions and their inverses, trigonometric identities, systems of equations and inequalities, sequences and series, the Binomial Theorem, topics in analytic geometry and plane geometry. [5 Credits]
(Source: Camosun College 2002-2003 Calendar)

Prerequisites: Math 172 or Math 063 or ABMA 063 or Math 11 by assessment.

Textbooks: R. Larson and R.P. Hostetler, *Precalculus*, 5th Edition, Houghton-Mifflin, Boston, 2001.

M.L. Bittinger & J.A. Beecher, *Geometry Supplement*, Addison-Wesley, CCPS, 1997.

Course Content: Chapter P Prerequisites (Review from Math 172) Section P1-P8

GS Chapter 6 Geometry Supplement Section GS6.1-GS6.9

Chapter 4 Trigonometry Section 4.1-4.4

Chapter 6 Additional Topics in Trigonometry Section 6.1-6.2

Chapter 1 Functions and Their Graphs Section 1.1, 1.3-1.7

Chapter 2 Polynomial and Rational Functions Section 2.1-2.2, 2.5-2.6

Chapter 3 Exponential and Logarithmic Functions Section 3.1-3.4

Chapter 4 Trigonometry (continued) Section 4.5-4.7

Chapter 5 Analytic Trigonometry Section 5.1-5.5

Chapter 7 Systems of Equations and Inequalities Section 7.1-7.3

Chapter 9 Sequences, Series, and Probability Section 9.1-9.3, 9.5

Chapter 10 Topics in Analytic Geometry Section 10.1-10.4, 10.6-10.8

Note: Occasionally, additional topics may be included in the course. A student absent from class is responsible for finding out what material was covered.

Assignments: Assignments will be given periodically during the term and will be due in class on the dates announced in class.

Study Time: It is recommended that approximately 10-16 hours per week be spent studying for this course outside of class time.

Calculator Policy: Graphing calculators may be used to check homework exercises, but their use will not be permitted on quizzes or the final exam. You will require an ordinary scientific calculator capable of the following operations: $\sqrt{x}$, p , $\log$, $\ln$, $\times e$, $\sin$, $\cos$, and $\tan$.

Math Room: Technologies Centre (TEC) 142 (phone: 370-4492): This drop-in centre is freely available for your use to work on math homework and to seek help from the tutor on staff (see hours posted on door).

Grade Calculation: The final grade will be calculated according to the following breakdown:

Quizzes: 30%

Assignments: 20%

Final Exam: 50%

Note: If your final exam grade is higher than your term average and your term work is judged satisfactory, then your final exam grade will count as 100% of your final grade.

Grade Scale: Final letter grades are assigned as follows (subject to the conditions above):

A+ 95-100 B+ 80-84 C+ 65-69 F 0-49

A 90-94 B 75-79 C 60-64

A- 85-89 B- 70-74 D 50-59