Mathematics 260 Applied Multivariable Calculus Quarter 2, 2004

Instructor: George Ballinger Office: Technologies Building (TEC) 219 E-mail: ballinge@camosun.bc.ca (note: there is no "r" in e-mail address) Web Site: camosun.bc.ca/~ballinge/ Telephone: 370-4471 Schedule:

8:30 am – 9:20 am 9:30 am – 10:20 am Math 260 (Civil) **JW108** Math 260 (Civil) ĴW108 Math 260 (Civil) TEC175 Math 260 (Civil) TEC175 10:30 am - 11:20 am 11:30 am – 12:20 pm Office Hour Office Hour Office Hour 12:30 pm – 1:20 pm Math 162-01 (Comp) CBA101 Office Hour Math 162-01 (Comp) CBA101 Math 162-01 (Comp) CBA101 1:30 pm - 2:20 pm Office Hour Math 162-01 (Comp) **JW108** Office Hour Office Hour 2:30 pm – 3:20 pm Math 162-02 (Comp) TEC177 Math 162-02 (Comp) JW108 Math 162-02 (Comp) TEC173 Math 162-02 (Comp) **TEC173** Important Dates: January 5 First day of classes January 19 Tuition fees due date January 30 Term Test 1 of 3 February 13 Reading Break (no classes) February 20 Term Test 2 of 3 February 23 Withdrawal date deadline March 12 Term Test 3 of 3 March 19 Last day of classes March 22-26 Final Exam Period (specific date, time, and location TBA in February) Calendar Description: Topics: integration review, Taylor series, vectors and coordinate geometry in 3space, partial differentiation with applications, and multiple integration with applications. [4 Credits] (Source: Camosun College 2003-2004 Calendar)

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Prerequisites: Admission to the Civil Engineering Bridge Program to UBC

Corequisites: Math 261 – Applied Linear Algebra

Textbook: R.E. Larson, R.P. Hostetler and B.H. Edwards, Calculus with Analytic Geometry,

Seventh Edition, Houghton Mifflin Co., Boston, 2002.

Course Content: Chapters 1-7 Review: 1.1-1.5, 3.5, 2.1-2.5, 4.4-4.5, 5.1-5.5, 5.8-5.10, 7.1-7.5, 7.7

Chapter 8 Infinite Series: 8.8-8.10

Chapter 10 Vectors and the Geometry of Space: 10.1-10.7

Chapter 11 Vector-Valued Functions: 11.1-11.4

Chapter 12 Functions of Several Variables: 12.1-12.10

Chapter 13 Multiple Integration: 13.1-13.8

Assignments: Suggested homework problems will be posted regularly on the course web site. You are expected to work on exercises in the textbook as part of your studying for the course; however, they are not to be handed in.

Study Time: It is recommended that approximately 8-12 hours per week (or more for students with a weak background) be spent studying for this course outside of class time.

Math Room: Technologies Building (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).

Calculator Policy: No calculators of any kind will be permitted on term tests or the final exam. **Grade Calculation:** To pass the course you **must** pass the final exam. If you pass the final exam, then the final grade will be calculated according to the following breakdown:

3 Term Tests: 40%

1 Comprehensive Final Exam: 60%

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

0-49 50-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-100

F D C C+ B- B B+ A- A A+ Page 2 of 2