

Dear First Year CBE Students,

I hope you are all enjoying your summer. The fall semester is rapidly approaching and we are all looking forward to your arrival here at Lehigh. You may recall in your First Year Course Request Packet that MATH 21 is the calculus requirement for all CBE students. The calculus competency program is designed to help you prepare the skills you will need to be successful in MATH 21. **A key component of this program is the Calculus Diagnostic which will be administered on Friday August 21<sup>st</sup>.** The diagnostic is comprised of questions from 4 pre-calculus topic areas. Once the diagnostic is graded, you will be able to see what specific topics you need to work on to improve your skills. We will offer several pre-calculus seminars and workshops which you can sign up for and attend during the fall semester. You can also re-take the calculus diagnostic as many times as necessary throughout the fall semester. The following provides more detailed information regarding your results on the calculus diagnostic.

### **STUDENTS WHO HAVE AP CREDIT FOR MATH 21**

If you have AP credit for MATH 21, you are not required to take the calculus diagnostic on August 21<sup>st</sup>. If you wish to forfeit your AP credit and enroll in MATH 21 you may do so without taking the calculus diagnostic. However, if you wish to voluntarily take the calculus diagnostic, your results will be used to determine whether you should take MATH 21 or participate in the calculus competency program.

### **STUDENTS WHO ARE REGISTERED FOR MATH 21**

If you are registered for MATH 21, you are required to take the calculus diagnostic on August 21<sup>st</sup>. If your score indicates that there are topics you need to improve, you will be advised to drop MATH 21 and select an elective. Assistance will be provided to help you select an elective to replace the MATH 21 course. If your score is high enough in all 4 topic areas, you may stay registered for MATH 21.

### **STUDENTS WHO ARE NOT REGISTERED FOR MATH 21**

Even if you are not registered for MATH 21 this fall, you must still take the calculus diagnostic on August 21<sup>st</sup>. The diagnostic will help you identify areas where you need to improve your skills and you can sign up for the appropriate seminars and workshops during the fall semester. If your score is high enough in all 4 topic areas, you may wish to change your schedule and take MATH 21 for this fall semester. Assistance will be provided to help you change your schedule if you wish to add MATH 21 and drop an elective.

### **STUDENTS IN THE CSB PROGRAM**

If you are enrolled in the CSB (Computer Science and Business) program, you do not have to take the Calculus Diagnostic. However, if you wish to take the diagnostic and participate in the seminars and workshops you are welcome to do so. If you are interested in taking a diagnostic, contact Nancy Freeman at [nf02@lehigh.edu](mailto:nf02@lehigh.edu).

## **SAMPLE CALCULUS DIAGNOSTIC**

Two sample calculus diagnostics have been prepared for your review. The sample diagnostics are similar to the one that will be given on August 21<sup>st</sup>. The diagnostic will be comprised of 28 questions from the following 4 pre-calculus topics: Algebra, Functions and Graphs, Functions (Polynomial, Rational, Exponential, and Logarithmic), and Trigonometric Functions and Identities. If you wish to take a sample diagnostic, give yourself a time limit of 55 minutes. This is the actual time permitted for the diagnostic administered on August 21<sup>st</sup>. Also, do not use a calculator. Calculators are not permitted during the actual calculus diagnostic, and are also not permitted during the MATH 21 course. The following link will send you to the two diagnostic samples:

<http://www.lehigh.edu/~inlumath/htmlxpt/index.htm>

Students whose documentation has been approved by Lehigh University Academic Support Services will be accommodated for this diagnostic.

You are certainly welcome to use the results of your practice diagnostic to work on your pre-calculus skills prior to arriving on campus. However, this is not required.

You will be provided with more details regarding the seminars and workshops that will be offered through the Calculus Competency program when you arrive on campus.

If you have any questions, please do not hesitate to contact me.

Best regards,

Joseph M. Manzo

Professor of Practice, Accounting  
Director, Rauch Center for Business Communications  
Lehigh University  
College of Business and Economics  
jmm6@lehigh.edu  
(610) 758-4863