Honors Mathematics I

Course Title	Honors Mathematics I		
Course Code	MAT150	Course Type	Free Elective
Credit	4	Contact Hours	60
Prerequisites	None	Co-Requisites	None
Duration	15 weeks	Class Type	Lecture

SolBridge GACCS Objectives	%	Learning Objectives
1. Global Perspective	0	1. Be equipped with wide applications for quantitative analysis of business systems as well as fundamentals of modern science and technology, important components of Creative Management
2. Asian Expertise	0	
3. Creative Management Mind	0	
4. Cross Cultural Communication	0	
5. Social Responsibility	0	

Course Description

This course is designed to introduce advanced algebra, calculus and geometry to students who do not have the background in elementary mathematics. The course is intended to teach students applied mathematics and covers selected topics from differential and integral calculus which have wide applications for quantitative analysis of business systems as well as fundamentals of modern science and technology.

Learning and Teaching Structure

This is the first part of a two-semester course intended to teach the students applied mathematics. In this semester we will cover selected topics from differential and integral calculus which has wide applications for quantitative analysis of business systems as well as fundamentals of modern science and technology, important components of Creative Management. It is offered only for the students interested in SolBridge's 2+2 Transfer Program with Georgia Institute of Technology. At a minimum, you are expected to attend all classes and recitations and complete all assigned homework. Math is NOT a spectator sport, and we will move at a very fast pace. Do not attempt to rely on your "abilities," you will only succeed in this class through effort and hard work. Besides the 3-hour per week lecture 2-hour per week recitation class will be offered.

Assessment	%	Text and Materials
Attendance	20	Title: Calculus: One and Several Variables
Homework	20	Edition: 10th Edition (Published in 2007)
Midterm Examination	20	Authors: Salas, Hille, and Etgen
Final Examination	40	Publisher: John Wiley & Sons (ISBN: 978-0471-69804-3)

Course content by Week

1	Introduction
2	Limits and Continuity
3-4	The Derivative; the Process of Differentiation
5-6	The Mean-Value Theorem: Applications of the First and Second Derivatives
7-8	Review and Midterm Examination
-9	Integration
10	Some Applications of the Integral
11	The Transcendental Functions
12-13	Techniques of Integration
14-15	Review and Final Examination