## MATH-ENG PROGRAM C MATRIX

C		2. Have a solid	3. Demonstrate knowledge of	4. Have good	5. Can work
OBJECTIVES	mathematics-based	background in	basic mathematical techniques	communication	effectively as
	professions or enroll in mathematics,	fundamental notions and principles of mathematics	to define and solve problems in various areas such as	skills, interact with other	members of a team, and are
	information	and mechanics, learn	mechanics, information	disciplines	aware of ethical
	technologies,	independently and develop	technologies and gain	effectively both	and professional
OUTCOMES	economics, business	abilities for analytical	experience in computer	in scientific and	responsibilities.
	graduate programs.	thinking and lifelong	programming.	oral-written	
Demonstrate the ability of solving		learning.		formats.	
problems by using techniques from					
calculus, linear algebra, differential					
equations, probability and statistics.					
2. Demonstrate knowledge of mathematics					
and mechanics to construct, analyze and					
interpret real world problems.					
3. Demonstrate the ability to apply					
mathematics to the solutions of problems.					
4. Have a basic knowledge of mechanics,					
information sciences and social sciences.  5. Have an ability to write computer					
programs and use algorithms for solving					
problems.					
6. Have a basic knowledge of the main					
fields of mathematics and mechanics,					
including differential equations, elasticity theory, fluid mechanics.					
<b>7</b>					
7. Have an ability to function both independently and as a member of a					
multidisciplinary team.					
8. Communicate effectively both in written					
and oral formats					
9. Attain a recognition of the need for, and					
an ability to engage in life-long learning					
10. Have an ability to recognize the					
importance of ethics in professional life.	<u> </u>				