Name:		SID #:		
CERTIFICATE MAJOR: ENGINEERING (Certificate of Achievement)				
CERTIFICATE REQUIREMENTS	Units	Other Colleges	Fa/Sp/Su and Year	Grade Earned
REQUIRED CORE:	31			
ENGR 1A Intro. to Engineering (3)				
MATH 20A Calc. w/Analytic Geom. I (4)				
MATH 20B Calc. w/Analytic Geom. II (4)				
MATH 20C Calc. of Several Variables (4)				
MATH 32 Differential Equations (4)				
PHYS 3A Science & Engr. Physics I (4)				
PHYS 3B Science & Engr. Physics II (4)				
PHYS 3C Science & Engr. Physics III (4)				
Select one track from the following:	13-23			
Mechanical, Civil, Aerospace, Manufacturing				
(22-23 units)				
CHEM 1A General Chemistry I (5)				
ENGR 2 Engineering Design Graphics (3)				
ENGR 4 Engineering Materials (4)				
ENGR 8 Engineering Statics (3)				
ENGR 12 Engineering Circuits (3)				
& ENGR 12L Engineering Circuits Lab (1)				
ENGR 17 Pgm/ProbSolving in MATLAB (3)				
or CSIS 10C Pgmg Methods 1.5: C and C++ (4)				
Electrical (13 units)				
CHEM 1A General Chemistry I (5)				
CSIS 10C Pgmg Methods 1.5: C and C++ (4)				
ENGR 12 Engineering Circuits (3)				
& ENGR 12L Engineering Circuits Lab (1)				
Computer, Software (19 units)				
CSIS 10A Pgmg Methods I: Java (4)				
CSIS 10B Pgmg Methods II: Java (4)				
CSIS 10C Pgmg Methods 1.5: C and C++ (4)				
CSIS 12 Discrete Structures (3)				
or MATH 40 Discrete Mathematics (3)				
ENGR 12 Engineering Circuits (3)				
& ENGR 12L Engineering Circuits Lab (1)				
TOTAL CERTIFICATE UNITS	44-54			
				С
At least 12 units in the major in residence				
Completion of Major (Grade of "C" or better in each	course)			
Counselor Signature:		Date:		