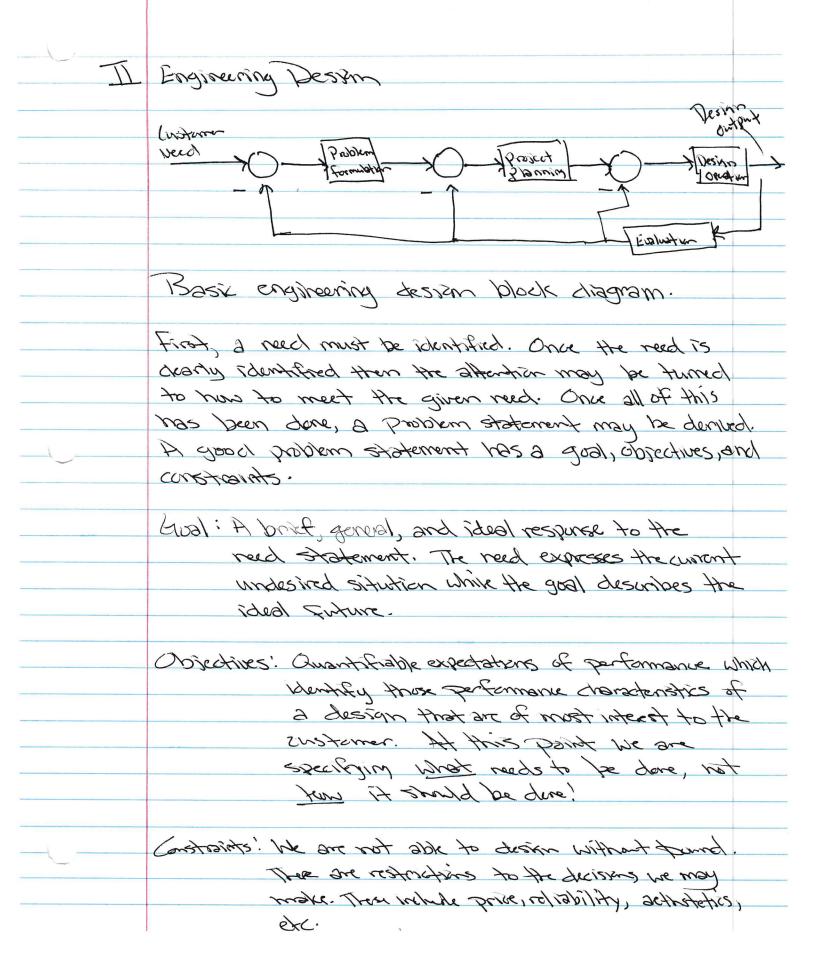
1	Aircraft Design Fundamentals
I	Introduction to Design
	In geneal design has 3 major operations:
	1) Analysis,
	2) Synthesis, and
	3) Evaluation.
	Analysis: Process of predicting the performance
	of or toenawor of a design cardidate
	Evaluation. Process of performance calculation and
	comparing the predicted performance of
	each design candidate to determine
	deficiencies
	Syldesis: The creatile process of puting known
	things together into new and more useful
	combinations.
	Analysis y
	Evaluation
	E Dalidation 3
	Synthesis
	In Jonal, Aircraft design incorporates & disciplines
	1) FIGHT JARAMIES 4) Lero Starchine
	2) Acrodynamics 5) Management 5kills
	, , , , , ,
	3) Propulsion 6) Engineering Design



At this point the customer's reeds have been translated into design requirements thereigh goals and abjectives. Desin requirements may include customer and engineering requirements. As the desire processes, change to the desire become more difficult. Thus, it is important to set as much as one can not the First time. III Desin Project Hanning A method of menitaring Progress is important. A common method of project monogenest cottol is via a Gont IV Decision Moking (antimotions should be safected based on evidence and reasoning. The hard part is that configurations are often a comprimise between objectives. A method of making a decision among Alternatives is 1) Spenfy the attemptives 2) Establish the grading criteria to dotomine different Forms of "ment" 3) Patire the motive. How do we rate these contents. 4) How to we convert different metric units to a 5) Socket the are with the littlest when

Earland Hildisson I While coming up with ideas to solve the public statement multiple viable solutions may be given. Feasibility analysis must be done one on each are to help in decidling which +2 go with. foosibility determines whether the design solution meets the good and critical (and to what degree), and determines if the solution is something that an actually De crested. 1 Custom Need Desirn Required Destriction No VICS Conceptual Concept Yes Design