

25-e	Ind	iana University	of Pennsylvania November 9, 2001	ATTACHMENT A
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	Cou	ırse Revision	COSC 220 Annilini Communica D	
			COSC 220 - Applied Computer Progr	amming
	I.	Catalog Des	cription	
		COSC 220	Applied Computer Programming	4 credits 0 lab hour 4 lecture hours 4c-0l-4sh
		Prerequisite	s: COSC 110 or equivalent.	
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	III.	Detailed Course Outline
	1.	Introduction to Structured Programming. (3 hours) An insight into the process of designing and writing computer programs; the four
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	8.	statements. A study of the basic reference modification principles. Table Processing Table definition and description of table use in COBOL programming. Distinguishing between fixed and variable length records. Differentiating between a subscript and an index. Distinguishing between sequential table lookup, binary table lookup, and direct access to table entries.	(4 hours) Sele
	9.	Multilevel Table Processing A concentral view of multidimensional tables. Involuntation of a	(3 hours)
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		multidimensional table. Searching a multidimensional table.	
	10.	File Sorting and Merging Oistinguishing between an internal sort, a utility sort, and the COBOL SO Statement Differentiating between ascending and descending sorts; between	4 hours) ORT
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-		major, intermediate, and minor keys. Defining a collating sequence. Exp of the use of INPUT PROCEDURE and OUTPUT PROCEDURE routine SORT statement. Distinguishing between a sort and a merge.	

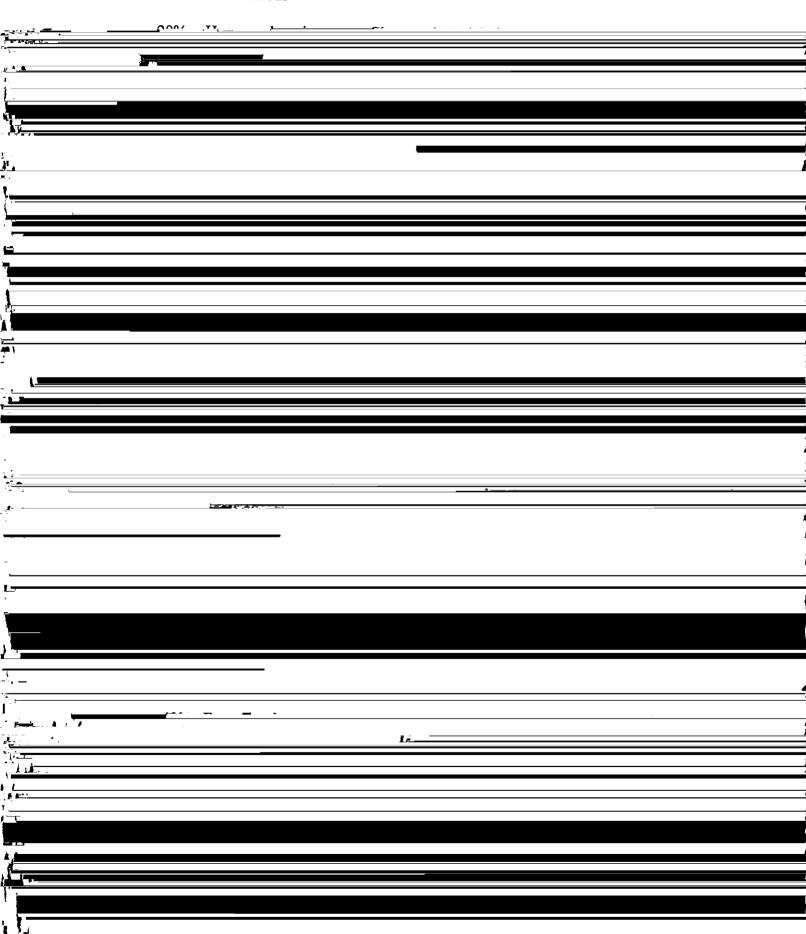
11. Devent Connecte and Control Drate Dromeronics of (6 h asset)

15. Interactive Program Design in COBOL

Discussion of the concept of interactive screen I/O versus the batch I/O approach.

Description of the SCREEN Section and a discussion of how its use may be preferable to the individual ACCEPT and DISPLAY statements. Application of ergonomics in interactive program design. Explanation of the beneficial features of data validation using interactive programming as opposed to batch-oriented programming

IV. Evaluation Methods



	Project #5:	Tracence - Periors13	(duration: Two weeks)	
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- 5. Doke, E. Reed & Hardgrave, Bill B., <u>An Introduction to Object COBOL</u>, John Wiley & Sons, New York, NY, 1998.
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