

**CLARION UNIVERSITY OF PENNSYLVANIA
COLLEGE OF BUSINESS ADMINISTRATION AND INFORMATION SCIENCES
REQUIREMENT SHEET**

REQUIREMENTS FOR MINOR IN INFORMATION SYSTEMS: 18 CREDITS

		<u>CR.</u>	<u>GR.</u>	<u>SEMESTER COMPLETED</u>
1. Required Courses (9 credits)				
CIS 110:	Intro. to Computer Concepts	3	—	_____
OR				
CIS 317:	Microcomputer Maintenance Tech.			
CIS 202:	Intro. to Program. & Algorithms I	3	—	_____
CIS 301:	Computer Systems Analysis	3	—	_____
2. Additional Required Courses (9 credits)				
CIS 208:	Introduction to Robotics Programming	3	_____	_____
CIS 217:	Spreadsheets and Office Apps	3	—	_____
CIS 270:	Client Side Web Programming	3	—	_____
CIS 303:	Local Area Networks	3	—	_____
CIS 305:	Artificial Intelligence in Decision Making	3	—	_____
CIS 306:	Object-Oriented Programming	3	—	_____
CIS 312:	Special Topics in Computing	3	—	_____
CIS 317:	Microcomputer Maintenance Concepts and Techniques	3	—	_____
CIS 318:	Autonomous Robotics Programming Algorithms	3	_____	_____
CIS 330:	Information Systems Programming	3	—	_____
CIS 333:	Information Systems Auditing & Security	3	—	_____
CIS 370:	Server Side Web Programming	3	—	_____
CIS 402:	Data Base Management Systems	3	—	_____
CIS 403:	Data Communications	3	—	_____
CIS 406:	Mobile Application Development	3	—	_____
CIS 435:	Machine Learning	3	—	_____
CIS/MGMT 470:	Project Management	3	—	_____

* All courses taken in the minor must be taken for a grade as stated in the CCPS Guidelines, page 15.

* A student must present a quality point average of 2.0 on a 4.0 scale in the minor.

* At least nine credits of this minor must not also be used to satisfy requirements for the student's major.

* All courses should be checked for prerequisites.

Signatures (upon completion of the minor requirements):

Minor Advisor

Date

Department Chairperson

Date