



Bachelor of Science in Information System Pathway MANCHESTER COMMUNITY COLLEGE

To earn a bachelor’s degree from National University students must complete a minimum of 180 quarter units. Requirements include but are not limited to the university’s general education program (to include upper division and cultural diversity), the preparatory courses listed below, major core coursework and any additional courses necessary to fulfill overall program requirements.

The table below maps National University’s Foundation Information System courses to equivalencies identified at **MANCHESTER COMMUNITY COLLEGE**.

Requirements for the Major at National University (10 courses; 45 quarter units)	
CIS 301 Mgmt. Information Systems	
CIS 310 Technology Project Management	
CIS 320 Systems Analysis & Integration	
CIS 350 Database Management Systems	
CIS 421 Enterprise Architecture	
CIS 422 IT Infrastructure	
CIS 423 IS Strategy, Mgt & Acquisition	
CSC 350 Computer Ethics	
CIS 420A Information Systems Project I	
CIS 420B Information Systems Project II	
Upper- Division Electives (3 courses; 13.5 quarter units) Select 3 upper-division courses from the following list	
CIS 430 Web/EB Design & Development	CIS 455 Wide Area Network
CIS 460 Human Factor /Ergonomic Design	CIS 474 Information Systems Security
CIS 434 Wireless LAN Administration	CIS 475 IS Security Technology
CIS 454 Local Area Network	
Students must complete core courses (Except CIS420A and CIS420B) and upper division electives before taking four courses (18 quarter units) in one of the two concentrations: Information Management or Business Management.	
Concentration in Business Management	Concentration in Information Management
MGT 309 Prin. of Mgmt. & Organizations	Students will choose four upper-division undergraduate courses from the Department of Engineering and Computing programs to create their own specialized concentration. This concentration requires prior approval from the Academic Program Director.
BIM 400 Info Mgmt. in Organizations	
MGT 483 E-Business	
AND Select 1 upper-division undergraduate business course	

Note: There requirements are subject to change. Please see the [National University’s Online General Catalog](#) for official record of requirements for the year you are admitted.

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