

**COLLEGE OF CONTINUING EDUCATION**

**UNIVERSITY OF MINNESOTA**

**Bachelor of Applied Science**

**PREREQUISITES for Information Technology Infrastructure Major Courses**

University of Minnesota-Twin Cities (UMTC)

Course Topic	Course #	Cr.	Prerequisites
<b>ITI Core Courses</b>			
Introduction to Operating Systems	CSci 4061	4	CSci 2021 or EE 2361 (recommended: Java, and C or INet 3101)
Introduction to Computer Networks	CSci 4211	3	CSci 4061 or consent of instructor
System Administration	INet 4031	4	CSci 4061 or consent of instructor; 45 credits
IT Infrastructure Operations [Capstone]	INet 4051	3	CSci 4211 or consent of instructor; senior
IT Infrastructure Projects and Processes	INet 4082	2	45 credits
Policy and Regulation: Effects on Global IT Infrastructure	INet 4153	3	45 credits; experience with Windows/Internet
Practice of Database Systems	INet 4707 or	3	CSci 4061; 45 credits [CSci students check with CSci Dept. before registering for INet 4707]
	CSci 4707		CSci 4041 or consent of instructor
<b>ITI Technical Electives</b> (Choose 10-12 credits depending on concentration)			
Special Topics in ITI Infrastructure	INet 3350	1-3	varies
Network Administration	INet 4011	4	CSci 4211 or consent of instructor
Network Programming	INet 4021	4	CSci 4211 or equivalent professional experience or consent of instructor; 45 credits
Storage Design and Administration	INet 4032	2	A laptop is useful for in-class work.
Emerging Network Technologies and Applications	INet 4041	3	CSci 4211 or equivalent professional experience or consent of instructor; 45 credits
Introduction to Business Intelligence and Data Warehousing	INet 4061	3	INet 4707 or CSci 4707 or consent of instructor; laptop
System Analysis and Design	INet 4083	2	INet 4082 or project management experience
Information Security: Technology, Ethics, Legality, and Standards	INet 4165	3	CSci 4061 or equivalent experience with operating systems
Directed Study	INet 4193	1-4	ITI faculty director and instructor approval, ITI student
Internship	INet 4596	1-3	ITI faculty director and instructor approval; ITI student; junior or senior
Art & Practice of Database Administration	INet 4709	3	CSci 4061; INet 4707 or CSci 4707; professional experience with SQL and basic operating systems
Big Data Architecture	INet 4710	3	Net 4031 and 4709 and familiarity with operating systems and databases; or consent of instructor
<b>Applied Business Management</b> (Choose one course)			
Management in Organizations	ABus 4022	3	45 credits
Health Care Administration and Mgmt.	HSM 4561	3	45 credits
<b>Applied Business Communication</b>			
Communicating for Results	ABus 4023W	3	45 credits
<b>Finance/Cost Accounting</b> (Choose one course)			
Accounting and Finance for Managers	ABus 4101	3	financial accounting; 45 credits
Health Care Finance	HSM 4541	3	none
<b>Quality and Process Improvement</b> (Choose one course)			
Introduction to Quality Management	ABus 3301	3	introductory statistics
Quality Engineering and Process Improvement	MM 4201	3	introductory statistics; 45 credits