

**University of Minnesota Duluth  
Vermilion Community College**

**Transfer Program in Management Information Systems**

Listed below are the courses offered at Vermilion Community College that apply to the Bachelor of Business Administration degree in Management Information Systems at the University of Minnesota Duluth (UMD). After successful completion of the listed Vermilion courses, students may complete UMD's Bachelor of Business Administration in Management Information Systems with additional full-time study.

<b>Vermilion Community College Courses to Complete</b>	<b>cr</b>	<b>UMD Requirements satisfied by Vermilion courses</b>	<b>cr</b>
Engl 1511 - College Composition	4	Comp 1120 – College Writing	3
Math 1561 - Calculus I	5	Math 1160 - Finite/Intro, to Calc or Math 1296 - Calculus I	5 5
Spch 1555 - Intro to Speech or Spch 1565 - Interpersonal Comm	3 3	*Comm 1112 - Public Speaking or Comm 1222 - Interpers Comm	3 3
Econ 1557 - Princ of Econ: Macro	3	Econ 1022 - Princ of Econ: Macro	3
Econ 1556 - Princ of Econ: Micro	3	Econ 1023 - Princ of Econ: Micro	3
Psyc 2551 - General Psychology	4	Psy 1003 - General Psychology	4
Acct 2661, 2662 – Accounting I, II	6	Acct 2001 - Principles of Fin Acct	3
Acct 2666 - Managerial Acct	3	Acct 2002 - Principles of Mgmt Acct	3
Bus 2655 - Legal Env of Business	3	Blaw 2001 - Legal Environment	3

**NOTES:**

\*An appropriate foreign language course may be substituted for the Communication requirement.

All students must meet grade-point average requirements for admission to upper-division SBE courses.

Completion of the Associate of Arts degree with the Minnesota Transfer Curriculum satisfies UMD liberal education requirements. See back for additional Bachelor of Business Administration degree requirements.

***Courses to be Completed at UMD:***

**Lower Division (must be taken prior to admission to upper-division as an MIS major)**

Econ 2020 - Statistics (5 cr)

CS 1511 - Computer Science I (5 cr,)

CS 1521 - Computer Science II (5 cr)

**Upper Division**

**Communication Skills Requirements**

Comp 3121 - Advanced Writing: Business (3 cr)

or FMIS 3141 - Business Communication (3 cr)

**SBE Core**

Mgts 3401 - Organization Behavior & Mgmt (3 cr)

FMIS 3201 - Mgmt Info Systems (3 cr)

FMIS 3301- Product & Operations Mgmt (3 cr)  
FMIS 3601 - Princ of Corp Finance (3 cr)  
Mgts 3701 - Fund of Marketing (3 cr)  
Mgts 3801 - Human Resource Management (3 cr)  
Mgts 4481 - Strategic Management (3 cr)

**Major Requirements**

**Group A - Required (6 credits)**

FMIS 3222 - Systems Analysis and Design (3 cr)  
FMIS 4225 - Advanced Applications Development (3 cr)

**Group B - One Course (3-4 credits)**

FMIS 3421 - Database Management and Design (3 cr)  
CS 4611 - Database Management Systems (4 cr)

**Group C - Four Courses (12-13 credits)**

FMIS 3212 - Structured Programming Techniques (3 cr)  
FMIS 3224 - Telecommunications (3 cr)  
FMIS 3226 - Expert Systems (3 cr)  
FMIS 3228 - Electronic Commerce Q cr)  
FMIS 3397 - SBE Internship (3 cr)  
FMIS 3411 - Distributed Computing Principles (3 cr)  
FMIS 3991 - Independent Study (3 cr)  
FMIS 4980 - Special Topics (3 cr)  
CS 2 111 - Intro to Programming in C++ (3 cr)  
CS 2121 - Intro to Programming in Java (3 cr)  
CS 3111 - Computer Ethics (4 cr)

**Supporting Courses (15 credits in non-SBE electives, excluding statistics and including upper-division electives in Economics and International Requirements.)**