



ENGINEERING Transfer Guides for A.A. Liberal Arts & Science Degree

This transfer guide is intended for students planning transfer to a baccalaureate program at a college or university listed. Specific requirements vary at individual transfer institutions and may change while this document is in print. **STUDENTS ARE RESPONSIBLE** for consulting with RCTC Counselors and the transfer institution for assistance in planning their course of study and to ensure accuracy. RCTC will not be held responsible for changes.

Receiving Institution

	MSU-M	NDSU	UM-TC	ISU	Course	Course Title	Credits
Goal 1: Written & Oral Communication Credits 11	•	•	•	•	ENGL 1117*	Reading and Writing Critically I	4
	•	•	•	•	ENGL 1118*	Reading and Writing Critically II	4
	•	•	•	•	SPCH 1114 or SPCH 1130	Fundamentals of Speech Interpersonal Communications	3
Goal 3: Natural Sciences Credits 14	•	•	•	•	PHYS 1127	Classical Physics I	5
	•	•	•	•	PHYS 1128	Classical Physics II	5
	•	•	•	•	CHEM 1127	Chemical Principles I	4
Goal 4: Mathematics/ Symbolic Systems Credits 10	•	•	•	•	MATH 1127	Calculus I	5
	•	•	•	•	MATH 1128	Calculus II	5
Goal 5: History & Social & Behavioral Sciences Credits 9	•	•	•	•		Per MNTC 2 credits minimum from each 3 areas:	
						Anthropology*, Economics*	
						Geography*, History*, Political Science, Psychology*, Sociology*	
Goal 6: Humanities – The Arts, Literature, Philosophy Credits 9	•	•	•	•		Per MNTC 2 credits minimum from each 3 areas: Art, English, Literature*, Foreign Culture, Humanities*, Journalism, Music Philosophy*, Speech/Theater,	
Health & Physical Education Credits 4	•	•	•	•		Any combination of Health and/or PE Activities (1100-1199)	
Other: Credits 9	•	•	•	•	MATH 2237	Multivariable and Vector Calculus	5
	•	•	•	•	MATH 2238	Differential Equations and Linear Algebra	5
		•	x	•	CHEM 1128	Chemical Principles II	4

Courses must be selected from those approved to satisfy the competencies of the Minnesota Transfer Curriculum (MNTC).

All courses included on this sheet are MNTC approved, (except for Health/Physical Education).

X See Counselor.

* Honors Equivalents Available.

The courses listed above (Math & Science) apply to most Engineering curricula. It is extremely important to see one of the counselors for special program/emphasis requirements (Ex. Chemical, Electrical, Mechanical etc.) Additional core (Engineering, Computer Science, etc) courses may be needed.

MSU-M – Mankato State, **NDSU**, - North Dakota State, **UM-TC** –University of Minnesota, Twin Cities, **ISA** – Iowa State.

Total (needed for AA Liberal Arts & Science Degree from RCTC)..... **64 Credits**

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A Member of the Minnesota State Colleges and Universities System

For additional information, please contact the Counseling Office at (507) 285-7260, or find us at www.roch.edu/rctc.