



UNIVERSITY OF MINNESOTA
College of Food, Agricultural and
Natural Resource Sciences (CFANS)
*2017-2018 Transfer Guide for
Anoka-Ramsey Community College*

This is the most up to date transfer guide. These guides are updated at least once per year, but are subject to change at any time. If you have questions, contact CFANS transfer admissions at 612-624-3220.

General Admission Guidelines for CFANS:

- Successful applicants will have **College Algebra (or higher)** completed or in progress to be completed prior to enrolling at the U of M. This must be completed with a C- or higher.
- Priority admission consideration is given to applicants who intend to graduate from CFANS.
- Most successful applicants will have a **strong foundation in math and science**.
- *For transfer applicants with fewer than 26 college credits complete, applications are reviewed using both college academics and the following:*
 - Successful completion of the high school course requirement.
 - High school rank percentile (students from non-ranking schools and those with GED or other high school equivalency are given full consideration).
 - ACT or SAT scores.
 - Rigor of the high school curriculum.

Major-Specific Admission Guidelines:

NOTE: Detailed course transfer information for every CFANS major begins on page 2 below.

Animal Science Pre-Vet

- Successful applicants to the Pre-Vet emphasis will have a cumulative GPA of 3.0 or higher and must have completed the following courses with a grade of B or higher:
 - College Algebra
 - One semester of Intro Chemistry with lab (Equivalent CHEM 1015/1017) or General Chemistry (Equivalent CHEM 1061/1065), prefer General Chemistry
 - One semester of General Biology with lab (Equivalent to BIOL 1009)

Applied Economics

- Applicants must have either **microeconomics or macroeconomics** completed with a B- or better before enrolling at the U of M

Agricultural and Food Business Management

- Applicants must have either microeconomics or macroeconomics completed with a B- or better before enrolling at the U of M.
- Most successful applicants will have a cumulative GPA of 2.8 or higher

Food Science

- Successful applicants must have completed the following courses with a grade of C- or better:
 - One semester of General Chemistry with lab (Equivalent CHEM 1061/1065)
 - One semester of General Biology with lab (Equivalent to BIOL 1009)
- Preferred cumulative GPA of 2.8 or higher

Nutrition

- Successful applicants must have completed the following courses with a grade of C or better:
 - One semester of General Chemistry with lab (Equivalent CHEM 1061/1065)
 - One semester of General Biology with lab (Equivalent to BIOL 1009)

***If a student has completed one full year of Chemistry (equivalent to CHEM 1061/1065 and CHEM 1062/1066) then the student is not required to complete General Biology with a lab, prior to admission. ***
- Preferred cumulative GPA of 2.8 or higher

Major: Agricultural Education

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1020 and lab	Chem 1015/1017	3A & 3B
Math 1200	Math 1031	4
Econ 2206	ApEc 1101	2 & 5A
Bus 1125	ApEc 1251	XX

Additional Courses for Agricultural Education Teaching Licensure

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Psyc 1110	Psy 1001	5B & 7

Major: Agricultural and Food Business Management

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Bus 1125	ApEc 1251/Acct 2050	XX
Econ 2206	ApEc 1101	2 & 5A
Econ 2205	ApEc 1102	2 & 5A
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Math 1310	Math 1142	4
Bus 2244	Mgmt 3001	XX
Math 1114	Stat 3011	4

Major: Agricultural Communication and Marketing

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1020 and lab	Chem 1015/1017	3A & 3B
Math 1200	Math 1031	4
Econ 2206	ApEc 1101	2 & 5A
Bus 1125	ApEc 1251	XX
Bus 2244	Mgmt 3001	XX

Additional Courses for Crops and Soils track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1114	Stat 3011	4

Major: Animal Science

Core Courses

Courses at Anoka-Ramsey	Courses at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Math 1200	Math 1031	4
Econ 2206	ApEc 1101	2 & 5A

Additional Courses for Production track

Courses at Anoka-Ramsey	Courses at U of MN	MnTC Goal Area
Chem 1020 and lab	Chem 1015/1017	3A & 3B
Bus 1125	ApEc 1251	XX

Additional Courses for Industry track

Courses at Anoka-Ramsey	Courses at U of MN	MnTC Goal Area
Chem 1020 and lab	Chem 1015/1017	3A & 3B
Econ 2205	ApEc 1102	2 & 5A
Bus 1125	ApEc 1251	XX

Additional Courses for Science/Pre-Vet track

Courses at Anoka-Ramsey	Courses at U of MN	MnTC Goal Area
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX
Chem 2062	Chem 2302	XX
Chem 2061 lab & 2062 lab	Chem 2311	XX
Phys 1317 and lab	Phys 1101	3A & 3B
Phys 1318 and lab	Phys 1102	3A & 3B

Major: Applied Economics

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Econ 2206	ApEc 1101	2 & 5A
Econ 2205	ApEc 1102	2 & 5A
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Math 1310	Math 1142	4
Math 1114	Stat 3011	4

Major: Bioproducts and Biosystems Engineering

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Math 1400	Math 1271	4
Math 1401	Math 1272	4
Math 2201 and 2210	Math 2243	XX
Math 2220	Math 2263	XX
Phys 1327 and lab	Phys 1301	3A & 3B
Phys 1328 and lab	Phys 1302	3A & 3B
Engr 2240	ME 3331	XX
Engr 2241 and 2242	AEM 2011 and AEM 2012 (in lieu of BBE 3001)	XX

Additional Courses for Bioproducts Engineering track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 2061	Chem 2301	XX
Chem 2062	Chem 2302	XX
Chem 2061 lab & 2062 lab	Chem 2311	XX

Additional Courses for Bioprocessing and Food Engineering track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 2061	Chem 2301	XX
Chem 2062	Chem 2302	XX
Chem 2061 lab & 2062 lab	Chem 2311	XX
Engr 2219 and 2221	EE 3005 and 3006	XX
Math 2230	Stat 3021	XX

Additional Courses for Environmental and Ecological Engineering track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 2230	Stat 3021	XX
Engr 2219 and 2221	EE 3005 and 3006	XX

Major: Environmental Sciences, Policy and Management

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Math 1114	Stat 3011	4
Econ 2206 (except PPLS)	ApEc 1101 (except PPLS)	2 & 5A

Additional Courses for Environmental Science track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Chem 1062 and lab	Chem 1062/ 1066	3A & 3B
Math 1310*	Math 1142*	4
Biol 2207 and lab	Biol 2202	3C
Phys 1317 and lab	Phys 1101	3A & 3B
NatS 1003	ESci 1001	3A & 3B

**If you want Hydrology or Atmospheric Science, Calculus 1 and 2 are recommended.*

Additional Courses for Conservation Resource Management track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1310	Math 1142	4
Biol 2206 & lab	Biol 2012	3A & 3C

Additional chemistry courses are available for this track. Please contact us for those options.

Additional Courses for Environmental Education and Communication track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 1020 and lab	Chem 1015/1017	3A & 3B
NatS 1003	ESci 1001	3A & 3B
Biol 2207 and lab	Biol 2022	3A & 3C
Biol 2206 and lab	Biol 2012	3A & 3C

Additional Courses for Policy, Planning, Law, and Society track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 1020 and lab	Chem 1015/1017	3A & 3B

Major: Fisheries, Wildlife and Conservation Biology

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Biol 2206 and lab	Biol 2012	3A & 3C
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Math 1310	Math 1142	4
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Econ 2206	ApEc 1101	2 & 5A

Additional Courses for Fisheries track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX

Additional Courses for Wildlife track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Phys 1317 and lab	Phys 1101	3A & 3B

Additional Courses for Pre-Vet Option (in addition to track option)

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX
Chem 2062	Chem 2302	XX
Chem 2061 lab & 2062 lab	Chem 2311	XX
Phys 1318 and lab	Phys 1102	3A & 3B
Phys 1317 and lab	Phys 1101	3A & 3B

Major: Food Science

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX
Chem 2062 and lab	Chem 2302	XX
Chem 2061 lab & 2062 lab	Chem 2311	XX
CMST 1110 or CMST 2215	Comm 1101 (in lieu of Afee 2421)	1B & 2
Phys 1327 and lab	Phys 1301	3A & 3B
Math 1310	Math 1142	4
Math 1114	Stat 3011	4

Major: Food Systems

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Math 1200	Math 1031	4
Chem 1020 and lab	Chem 1015/1017	3A & 3B
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Econ 2206	ApEc 1101	2 & 5A

Additional Courses for Agroecology track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 2061	Chem 2301	XX

Major: Forest and Natural Resource Management

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1020 and lab	Chem 1015/1017	3A & 3B
CMST 1110 or CMST 2215	Comm 1101	1B & 2
Math 1114	Stat 3011	4

Additional Courses for Forest Ecosystem Management & Conservation track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1201	Math 1151	4

Additional Courses for Park and Protected Area Management track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1200	Math 1031	4
Psyc 1110	Psy 1001 (or Soc 1001)	5B & 7
Soc 1111	Soc 1001 (or Psy 1001)	2 & 5B

Additional Courses for Urban and Community Forestry track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1201	Math 1151	4

Major: Nutrition

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX
CMST 1110 or CMST 2215	Comm 1101 (in lieu of Afee 2421)	1B & 2
Math 1114	Stat 3011	4

Additional Courses for Dietetics and Nutrition Studies tracks

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1200	Math 1031	4

Additional Courses for Nutrition Science track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Chem 2062 and lab	Chem 2302	XX
Chem 2061 lab & 2062 lab	Chem 2311	XX
Phys 1327 and lab	Phys 1301	3A & 3B
Phys 1328 and lab	Phys 1302	3A & 3B
Math 1310	Math 1142	4

Major: Plant Science

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
Chem 1061 and lab	Chem 1061/1065	3A & 3B
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Math 1200	Math 1031	4
CMST 1110 or CMST 2215	Comm 1101	1B & 2

Additional Courses for Agroecology track

Courses at Anoka-Ramsey	Courses at U of MN	MnTC Goal Area
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX

Additional Courses for Plant Breeding track

Courses at Anoka-Ramsey	Courses at U of MN	MnTC Goal Area
Math 1114	Stat 3011	4
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Chem 2061	Chem 2301	XX

Major: Sustainable Systems Management

Core Courses

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Engl 1121	Freshman Composition	1A & 2
Biol 1106 and lab	Biol 1009	3A & 3C
CMST 1110 or CMST 2215	Comm 1011	1B & 2
Math 1114	Stat 3011	4
Econ 2206	ApEc 1101	2 & 5A
Math 1400	Math 1271	4
Chem 1061 and lab	Chem 1061/1065	3A & 3B

Additional Courses for Corporate Sustainability Systems track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Phys 1327 and lab	Phys 1301	3A & 3B
Phys 1328 and lab	Phys 1302	3A & 3B
Econ 2205	ApEc 1102	2 & 5A
Bus 1125	Acct 2050	XX
Bus 2244	Mgmt 3001	XX
Chem 1062 and lab	Chem 1062/1066	3A & 3B

Additional Courses for Sustainable Products Business Management track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Econ 2205	ApEc 1102	2 & 5A
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Bus 1125	Acct 2050	XX
Phys 1327 and lab	Phys 1301	3A & 3B
Phys 1328 and lab	Phys 1302	3A & 3B
Bus 2244	Mgmt 3001	XX

Additional Courses for Building Science and Technology track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Phys 1327 and lab	Phys 1301	3A & 3B
Phys 1328 and lab	Phys 1302	3A & 3B
Math 1401	Math 1272	XX

Additional Courses for Energy Systems track

Courses at Anoka-Ramsey	Course at U of MN	MnTC Goal Area
Math 1401	Math 1272	XX
Chem 1062 and lab	Chem 1062/1066	3A & 3B
Phys 1327 and lab	Phys 1301	3A & 3B
Phys 1328 and lab	Phys 1302	3A & 3B

