

Transfer Guide

Electrical Engineering at the University of Minnesota – Twin Cities

8/30/2024



The following lists the courses you can take at Anoka-Ramsey that will transfer to the University of Minnesota for a Bachelor's Degree in Electrical Engineering.

Degree Requirements

Anoka-Ramsey Math, Science, Computer Science, and Engineering Courses

ARCC Course	Prerequisite	Typically Offered ³	Equivalent UMN Course
MATH 1400 ⁴	MATH 1201 or MATH 1210 ¹	Fall, Spring, Summer	MATH 1371
MATH 1401 ⁴	MATH 1400	Fall, Spring, Summer	MATH 1372
MATH 2201 ⁵ and MATH 2210 ⁵	MATH 1401	2201: Fall 2210: Spring	MATH 2373
MATH 2220	MATH 1401	Fall, Spring	MATH 2374
PHYS 1327 ⁴	MATH 1400 ²	Fall, Spring	PHYS 1301
PHYS 1328 ⁴	PHYS 1327	Spring, Summer	PHYS 1302
CHEM 1061 ⁴	MATH 0250 ¹ , and CHEM 1020 or CHEM 1050 or H.S. Chem	Fall, Spring, Summer	CHEM 1061 and CHEM 1065
CHEM 1062	CHEM 1061	Fall, Spring, Summer	CHEM 1062 and CHEM 1066
CSCI 1106	CSCI 1101	Fall, Spring	CSCI 1113 (Fulfills the EE 1301 Requirement)
ENGR 2218 ⁵	MATH 1400	Fall	EE 2301
ENGR 2219 ⁵	MATH 1400 and PHYS 1327	Spring	EE 2015
ENGR 2240	MATH 1400 and CHEM 1061	Fall	ME 3331 (May be used as a Technical Elective)
ENGR 2241	PHYS 1327	Fall	AEM 2011 (May be used as a Technical Elective)
ENGR 2242	PHYS 1327	Spring	AEM 2021 (May be used as a Technical Elective)
ENGR 2243	ENGR 2243	Spring	AEM 3031 (May be used as a Technical Elective)

¹ Math prerequisite can be met with the appropriate score on the math placement test

² Prerequisite can be taken concurrently.

³ While every effort is made to offer courses in the semester(s) indicated, Anoka-Ramsey cannot guarantee this.

⁴ Course is required for admission to the College of Science and Engineering

⁵ Course is required for admission to the Electrical Engineering Major

Anoka-Ramsey General Education Courses

The Minnesota Transfer Curriculum (MnTC) helps students transfer their general education courses from two-year to four-year colleges and universities. Several of the required math and science courses fulfill MnTC goal areas. For more information on the MnTC, go to the following website: <http://www.anokaramsey.edu/resources/transfer/mntc/>

Admission to the University of Minnesota Electrical Engineering Program

By completing the courses listed in the transfer table that are required for admission to the College of Science and Engineering and the Electrical Engineering Major, you will transfer directly into the Electrical Engineering Major at the University of Minnesota.

Remaining University of Minnesota Courses

EE 2115
EE 2361
EE 3015
EE 3025
EE 3101
EE 3102
EE 3115
EE 3161
EE 3601
EE 4951W
EE Technical Electives