

## Transfer Guide

### Bioproducts and Biosystems Engineering – Bioproducts Engineering at the University of Minnesota – Twin Cities

12/14/2021



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 Bioproducts and Biosystems Engineering, with a Sub-Plan of Bioproducts Engineering.

#### Degree Requirements

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

ARCC Course	Prerequisite	Typically Offered <sup>3</sup>	Equivalent UMN Course
MATH 1400 <sup>4</sup>	MATH 1201 or MATH 1210 <sup>1</sup>	Fall, Spring, Summer	MATH 1371
MATH 1401 <sup>4</sup>	MATH 1400	Fall, Spring, Summer	MATH 1372
MATH 2201 <sup>5</sup> and MATH 2210 <sup>5</sup>	MATH 1401	2201: Fall 2210: Spring	MATH 2373
MATH 2220 <sup>5</sup>	MATH 1401	Fall, Spring	MATH 2374
PHYS 1327 <sup>4</sup>	MATH 1400 <sup>2</sup>	Fall, Spring	PHYS 1301
PHYS 1328 <sup>4,5</sup>	PHYS 1327	Spring, Summer	PHYS 1302
CHEM 1061 <sup>4,5</sup>	MATH 0250 <sup>1</sup> , and CHEM 1020 or CHEM 1050 or H.S. Chem	Fall, Spring, Summer	CHEM 1061 and CHEM 1065
CHEM 1062 <sup>4,5</sup>	CHEM 1061	Fall, Spring, Summer	CHEM 1066 and CHEM 1062
CHEM 2061 <sup>5</sup>	CHEM 1062	Fall, Summer	CHEM 2301
CHEM 2062	CHEM 2061	Spring	CHEM 2302 (May be used as a Technical Elective. Completing both CHEM 2061 and CHEM 2062 at ARCC will also fulfill the requirement for CHEM 2311 at the UMN)
BIOL 1106	CHEM 1020 or CHEM 1050 or CHEM 1061 or H.S. Chem within the last three years	Fall, Spring, Summer	BIOL 1009
ENGR 2241 and ENGR 2242	PHYS 1327	2241: Fall 2242: Spring	Fulfills the requirement for BBE 2001

<sup>1</sup> Math prerequisite can be met with the appropriate score on the math placement test

<sup>2</sup> Prerequisite can be taken concurrently.

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

<sup>4</sup> Course is required for admission to the College of Science and Engineering

<sup>5</sup> Course is required for admission to the Bioproducts and Biosystems 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 Bioproducts and Biosystems 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 Bioproducts and Biosystems Engineering Major, you will transfer directly into the Bioproducts and Biosystems Engineering Major at the University of Minnesota.

##### Remaining University of Minnesota Courses

BBE 2003  
BBE 3002  
BBE 3012  
BBE 3013  
BBE 3033  
BBE 3043  
BBE 4001  
BBE 4013  
BBE 4023W

BBE 4301  
BBE 4303  
BBE 4401  
BBE 4402  
BBE 4403  
BBE 4502W  
BBE 4713  
BBE Technical Electives

The information in this guide is subject to change.