



# TRANSFER GUIDE

## Madison Area Technical College to Biomedical Engineering – College of Engineering & Applied Science

### **UWM Admission Guidelines**

Transfer admission is a holistic and selective process, and no single criterion guarantees admission. The following factors are taken into consideration when reviewing applications:

- Demonstrated satisfactory academic progress
- Successful completion of college-level math and English courses
- Total credit hours completed
- Academic standing at your previous institution

If you have fewer than 12 transferable credits, we will also review your high school academic records.

Most admitted transfer students have a cumulative GPA of 2.0 or greater on all transferable coursework. Competency in English and mathematics is an important factor in the admission decision.

***Please note that the College of Engineering & Applied Science is a selective program and has additional requirements for admission into its majors.***

We encourage students to utilize this guide to plan their coursework for their first and second semesters at Madison College. We highly recommend that students who are interested in transferring contact a UWM Transfer Advisor for more information about additional requirements of specific academic programs.

### **College of Engineering & Applied Sciences Admission Requirements**

1. Complete Calculus 1 with a C or better grade. (MATH/804 231 at Madison College)
2. Complete GER Oral and Written Communication Part A. (ENG/801 202 at Madison College)
3. Complete Intro to Chem with a C or better grade or satisfactory score on the placement test. (CHEM/806 201 at Madison College)
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

### **Transfer Admissions Contact Information**

UWM Office Phone: 414-229-2222

Email: [undergraduateadmissions@uwm.edu](mailto:undergraduateadmissions@uwm.edu)

### **Department/School/College Advisor Contact Information**

College of Engineering & Applied Science Student Services

Email: [ceas-adv@uwm.edu](mailto:ceas-adv@uwm.edu)

Phone: 414-229-4667

P.O. Box 784

3200 N. Cramer

Milwaukee, WI 53201-0784

<http://uwm.edu/engineering/current-students/advising/>

	Madison College coursework	Cr.	UWM coursework
<b>General Education Requirements (GER)</b>			
Oral and Written Comm Part A	ENG/801 202* ^	0-3	ENGLISH 102* ^
Oral and Written Comm Part B/Humanities		3	ENGLISH 310
Quantitative Literacy Part A	Demonstrated competency*	0-4	Demonstrated competency*
Quantitative Literacy Part B	Met by math requirement below	--	Met by math requirement below
Foreign Language	Demonstrated competency*	0-8	Demonstrated competency*
Art	Various options**	3	Various options**
Humanities (3 additional credits)	Various options**	3	Various options**
Social Science (6 credits)	Various options**	3	Various options**
	Various options**	3	Various options**
Natural Science (6 credits)	Met by coursework w/in major	--	Met by coursework w/in major
Cultural Diversity	Met by above w/ diversity focus**	--	Met by above w/ diversity focus**
<b>Engineering Core</b>			
Fund of Biomedical Engineering		3	BME 101
Intro to Solid Mechanics	GENENG/806 234	4	CIV ENG 203
Professional Seminar	GENENG/806 294	1	EAS 200
Electrical Circuits I	GENENG/662 121	3	ELECENG 301
Electrical Circuits II	GENENG/662 221	4	ELECENG 305
Engineering Materials		4	MATLENG 201
Computational Tools for Engr		2	MECHENG 101
Basic Engr Thermodynamics		3	MECHENG 301
<b>Major Requirements</b>			
Anatomy & Physiology I	BIOLOGY/806 207^	4	BIO SCI 202
Anatomy & Physiology II	BIOLOGY/806 208	4	BIO SCI 203
Biostatistics/Intro Stats Phys Sci		3	KIN 270
Analysis/Modeling Dynamic Sys		4	BME 302
Intro Engineering Biomechanics		3	BME 305
Signals & Systems		3	BME 310
Engr Biomedical Devices I		4	BME 320
Engr Biomedical Devices II		3	BME 325
Intro to Biomaterials		3	BME 385
Biomedical Instrumentation Lab		4	BME 495
Capstone Design Project		3	BME 595
<b>Math Requirement</b>			
Calc & Analytic Geometry I	MATH/804 231^	5	MATH 231^
Calc & Analytic Geometry II	MATH/804 232^	5	MATH 232^
Calc & Analytic Geometry III	MATH/804 233	5	MATH 233
Analytical Methods in Engr	MATH/804 255^ & 256 ^	6	ELECENG 234^
<b>Physics Requirement</b>			
Physics 1	PHYSICS/806 223^^	5	PHYSICS 209^^ & 214
Physics 2	PHYSICS/806 224	5	PHYSICS 210 & 215
<b>Technical Electives</b>			
Consult a UWM engineering advisor for the best technical elective options based on your career/degree goals.		11	
<b>Free Electives</b>			
Consult a UWM engineering advisor for exact elective needs and options.		0-6	
<b>Total Credits = minimum 120</b>		<b>120</b>	

A maximum of 72 credits are transferrable to the University of Wisconsin-Milwaukee from two-year technical colleges.

\*Can be satisfied by satisfactory placement exam score or coursework. Foreign language may be met by 2 years of HS study.

\*\*Consult [Transferology, TED](#), or discuss GER options with an advisor to see which courses are most appropriate.

^ C or better grade required

^^ C- or better grade required