



TRANSFER GUIDE

**Milwaukee Area Technical College to
Biomedical Engineering – College of Engineering & Applied Science**

University of Wisconsin-Milwaukee 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 Area Technical 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 231 at MATC)
2. Complete GER Oral and Written Communication Part A. (ENG 202 at MATC)
3. Complete Chem 100 with a C or better grade or satisfactory score on the placement test. (NATSCI 211 at MATC)
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

Department/School/College Advisor Contact Information

College of Engineering & Applied Science Student Services

Email: 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/>

| | Milwaukee Area Technical College course | Cr. | UWM course |
|------------------------------------|--|-----------|--|
| GER requirements | | 15 | |
| Oral and Written Part A | ENG 202 (C or better grade) | 0 | ENG 102 |
| Oral and Written Part B | | 3 | ENG 310 |
| Art* | Various Options* | 3 | Various Options* |
| Humanities* | Various Options* | 3 | Various Options* |
| Social Science* | Various Options* | 6 | Various Options* |
| Cultural Diversity* | May be fulfilled w/ art, humanities, or social sci course w/ diversity focus | 0 | May be fulfilled w/ art, humanities, or social sci course w/ diversity focus |
| Foreign Language | Demonstrated Competency | 0 | Demonstrated Competency |
| Engineering Core | | 26 | |
| Fund of Biomedical Engineering | | 3 | BME 101 |
| Statics | | 3 | CIV ENG 201 |
| Dynamics | | 3 | CIV ENG 202 |
| Professional Seminar | | 1 | EAS 200 |
| Electrical Circuits I | | 3 | ELECENG 301 |
| Electrical Circuits II | | 4 | ELECENG 305 |
| Engineering Materials | | 4 | MATLENG 201 |
| Computational Tools for Engr | | 2 | MECHENG 101 |
| Basic Engr Thermodynamics | | 3 | MECHENG 301 |
| Major Requirement | | 38 | |
| Anatomy & Physiology I | NATSCI 201 | 4 | BIO SCI 202 |
| Anatomy & Physiology II | NATSCI 202 | 4 | BIO SCI 203 |
| Biostatistics/Intro Stats Phys Sci | | 3 | BIO SCI 465 or IND ENG 367 |
| Analysis/Modeling Dynamic Sys | | 4 | BME 302 |
| Intro Engineering Biomechanics | | 3 | BME 305 |
| 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 |
| Signals & Systems | | 3 | ELECENG 310 |
| Math Requirement | | 16 | |
| Calc & Analytic Geometry I | MATH 231 (C or better grade) | 5 | MATH 231 |
| Calc & Analytic Geometry II | MATH 232 (C or better grade) | 5 | MATH 232 |
| Calc & Analytic Geometry III | MATH 233 | 5 | MATH 233 |
| Analytical Methods in Engr | | 6 | ELECENG 234 |
| Physics Requirement | | 10 | |
| Physics 1 | NATSCI 274 | 5 | PHYSICS 209 & 214 |
| Physics 2 | NATSCI 275 | 5 | PHYSICS 210 & 215 |
| Technical Electives | | 15 | |
| | Consult a UWM engineering advisor for the best technical elective options based on your career/degree goals. | | |
| Total Credits = minimum 120 | | | |

*Discuss GER options with advisor to see which are transferable.