



TRANSFER GUIDE

**UWM @ Waukesha/Washington Co. to
Mechanical Engineering – College of Engineering & Applied Science**

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.

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 the UWM Waukesha and Washington County campuses. 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.

Admission to College of Engineering & Applied Science Majors Requirements

1. Complete Calculus 1 with a C or better grade. (CGS MAT 221 at branch campuses)
2. Complete GER Oral and Written Communication Part A with a C or better grade. (CGS ENG 102 at branch campuses)
3. Complete CHEM 145 with a C or better or score satisfactorily on the chemistry placement test. (CGS CHE 145 at branch campuses)
4. Obtain a minimum GPA 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/>

| | UWM @ Waukesha/Washington Co. CGS courses | Cr | UWM Main Campus courses |
|---|--|------------|---|
| GER requirements | | 15 | |
| Oral and Written Part A | Demonstrated competency* | 0-3 | Demonstrated competency* |
| Oral and Writ Part B/Humanities | CGS ENG 250 | 3 | ENGLISH 215 substitute for 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 |
| Art | Various options** | 3 | Various options** |
| Humanities | 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 | May be fulfilled w/ art, humanities, or social sci course w/ diversity focus | | May be fulfilled by art, humanities, or social sci course w/ diversity focus |
| Foreign Language | Demonstrated competency** | 0-8 | Demonstrated competency** |
| Engineering Core | | 34 | |
| Statics | CGS EGR 201 | 3 | CIV ENG 201 |
| Dynamics | CGS EGR 202 | 3 | CIV ENG 202 |
| Strength of Materials | CGS EGR 203 | 4 | CIV ENG 303 |
| Professional Seminar | | 1 | EAS 200 |
| Electrical Circuits I | | 3 | ELECENG 301 |
| Engineering Materials | | 4 | MATLENG 201 |
| Computational Tools for Engr | | 2 | MECHENG 101 |
| Engineering Fundamentals I | CGS EGR 105 | 4 | MECHENG 110 |
| Engineering Fundamentals II | | 4 | MECHENG 111 |
| Basic Engr Thermodynamics | CGS EGR 263 | 3 | MECHENG 301 |
| Intro to Fluid Mechanics | | 3 | MECHENG 320 |
| Major Requirements | | 33 | |
| Basic Heat Transfer | | 4 | MECHENG 321 |
| Intro Stats for Phys Sci & Engr | | 3 | IND ENG 367 |
| Materials/Process Manufacturing | | 3 | MATLENG 330 |
| Fluid Mechanics Laboratory | | 1 | MECHENG 323 |
| Mechanical Design I | | 3 | MECHENG 360 |
| Design of Machine Elements | | 4 | MECHENG 366 |
| Computer Aided Engineering Lab | | 2 | MECHENG 370 |
| Mechanical Engr Experimentation | | 3 | MECHENG 438 |
| Intro to Control Systems | | 4 | MECHENG 474 |
| Control/Design Mechatronic Sys | | 3 | MECHENG 479 |
| Product Realization or Senior Design Project | | 3 | MECHENG 405 MECHENG 496 |
| Math Requirements | | 16 | |
| Calc & Analytic Geometry I | CGS MAT 221 | 4 | MATH 231 |
| Calc & Analytic Geometry II | CGS MAT 232 | 4 | MATH 232 |
| Calc & Analytic Geometry III | CGS MAT 233 | 4 | MATH 233 |
| Analytical Methods in Eng | | 4 | ELECENG 234 |
| Chemistry Requirement | | 5 | |
| Gen Chem for Engineering | CGS CHE 165 (or CGS CHE 145 & 155) | 5-10 | CHEM 105 (or CHEM 102 & 104) |
| Physics Requirement | | 10 | |
| Physics I & II (w/ Lab, Calc Based) | CGS PHY 209, 214, 210, & 215 | 10 | PHYSICS 209, 214, 210, & 215 |
| Technical Electives | | 15 | |
| Group A (6-9 credits) | Consult an engineering advisor for the best technical elective options based on your career/degree goals. | | |
| Group B (6-9 credits) | | | |
| Group C (0-3 credits) | | | |
| Total Credits = minimum 128 | | 128 | |

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

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