



TRANSFER GUIDE

Harper College to Industrial 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. 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. (MTH 200 at Harper)
2. Complete GER Oral and Written Communication Part A. (ENG 102 at Harper)
3. Complete Intro to Chem with a C or better grade or satisfactory score on the placement test. (CHM 110 at Harper)
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/>

| | Harper College coursework | Cr. | UWM course |
|--|-----------------------------------|------------|-----------------------------------|
| GER requirements | | | |
| Oral and Written Comm Part A | ENG 102* ^ | 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** |
| Engineering Core | | | |
| Introduction to Solid Mechanics | EGR 210 & 212 | 4 | CIV ENG 203 |
| Intro to Python Programming | | 3 | COMPSCI 202 |
| Professional Seminar | | 1 | EAS 200 |
| Electrical Circuits I | EGR 265 | 3 | ELECENG 301 |
| Intro to Engineering | | 3 | IND ENG 111 |
| Engr Drawing & CAD/Design | | 3 | IND ENG 112 |
| Engineering Economic Analysis | | 3 | IND ENG 360 |
| Engineering Materials | | 4 | MATLENG 201 |
| Major Requirements | | | |
| Manufacturing Processes | | 3 | IND ENG 350 |
| Intro Stats for Phys Sci & Engr | | 3 | IND ENG 367 |
| Intro to Operations Analysis | | 3 | IND ENG 370 |
| Operations Research I | | 3 | IND ENG 455 |
| Operations Research II | | 3 | IND ENG 465 |
| Methods Engineering | | 3 | IND ENG 470 |
| Simulation Methodology | | 3 | IND ENG 475 |
| Senior Design Project | | 3 | IND ENG 485 |
| Quality Control | | 3 | IND ENG 571 |
| Design of Experiments | | 3 | IND ENG 575 |
| Ergonomics | | 3 | IND ENG 580 |
| Facility Layout/Material Handling | | 3 | IND ENG 583 |
| Math Requirement | | | |
| Calc & Analytic Geometry I | MTH 200^ | 5 | MATH 231 |
| Calc & Analytic Geometry II | MTH 201^ | 5 | MATH 232 |
| Calc & Analytic Geometry III | MTH 202 | 5 | MATH 233 |
| Analytical Methods in Engr | MTH 212 (may sub for ELECENG 234) | 4 | ELECENG 234 |
| Chemistry Requirement | | | |
| Chemistry 1 | CHM 121 | 5 | CHEM 102 |
| Physics Requirement | | | |
| Physics 1 (Calculus-based) | PHY 201^^ | 5 | PHYSICS 209^^ & 214 |
| Physics 2 (Calculus-based) | PHY 202 | 5 | PHYSICS 210 & 215 |
| Technical Electives | | | |
| Consult a UWM engineering advisor for the best technical elective options based on your career/degree goals. | | 9 | |
| Free Electives | | | |
| Consult a UWM engineering advisor for exact elective needs and options. | | 0-7 | |
| Total Credits = minimum 120 | | 120 | |

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