



# TRANSFER GUIDE

## Elgin Community College to Environmental 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 190 at Elgin CC)
2. Complete GER Oral and Written Communication Part A. (ENG 102 at Elgin CC)
3. Complete Chem 100 with a C or better grade or satisfactory score on the placement test. (CHM 142 at Elgin CC)

### **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/>

|  | Elgin CC coursework               | Cr.        | UWM coursework                    |
|--|-----------------------------------|------------|-----------------------------------|
| <b>General Education Requirements (GER)</b>  |                                   |            |                                   |
| 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** |
| <b>Engineering Core</b>  |                                   |            |                                   |
| Intro to Solid Mechanics   | EGR 152 & 172                     | 4          | CIV ENG 203                       |
| Professional Seminar   |                                   | 1          | EAS 200                           |
| Intro to Engineering   | EGR 100                           | 2          | IND ENG 111                       |
| Engr Drawing & Comp Aided Design/Drafting  | EGR 101                           | 4          | IND ENG 112                       |
| Engineering Economic Analysis  |                                   | 3          | IND ENG 360                       |
| Intro to Stats for Phy Sci & Engr  |                                   | 3          | IND ENG 367                       |
| Engineering Materials  |                                   | 4          | MATLENG 201                       |
| Basic Engineering Thermodynamics   | EGR 192                           | 3          | MECHENG 301                       |
| Intro to Fluid Mechanics   |                                   | 3          | MECHENG 320                       |
| <b>Major Requirements</b>  |                                   |            |                                   |
| Intro to Energy, Environment, & Sustainability   |                                   | 3          | CIV ENG 311                       |
| Engr Prin Water Resources Design   |                                   | 3          | CIV ENG 411                       |
| Applied Hydrology  |                                   | 3          | CIV ENG 412                       |
| Environmental Engineering  |                                   | 3          | CIV ENG 413                       |
| Water Quality Assessment   |                                   | 4          | CIV ENG 521                       |
| Intro to Water & Sew Treatment   |                                   | 3          | CIV ENG 610                       |
| Hazardous Waste Management   |                                   | 3          | CIV ENG 614                       |
| Prin Civil Engineering Design  |                                   | 1          | CIV ENG 494                       |
| Senior Design  |                                   | 3          | CIV ENG 495                       |
| <b>Math Requirement</b>  |                                   |            |                                   |
| Calc & Analytic Geometry I   | MTH 190^                          | 5          | MATH 231^                         |
| Calc & Analytic Geometry II  | MTH 210^                          | 5          | MATH 232^                         |
| Calc & Analytic Geometry III   | MTH 230                           | 5          | MATH 233                          |
| Analytical Methods in Engr   |                                   | 4          | ELECENG 234^                      |
| <b>Chemistry Requirement</b>   |                                   |            |                                   |
| Gen Chemistry for Engineering  | CHM 142^ & 143                    | 10         | CHEM 102^ & 104                   |
| <b>Physics Requirement</b>   |                                   |            |                                   |
| Physics 1 (Calculus-based)   | PHY 211^^                         | 5          | PHYSICS 209^^ & 214               |
| Physics 2 (Calculus-based)   | PHY 212                           | 5          | PHYSICS 210^ & 215                |
| <b>Biology Requirement</b>   |                                   |            |                                   |
| Foundation in Biological Science I   | BIO 113^                          | 4          | BIO SCI 150                       |
| <b>Other Natural Sciences</b>  |                                   |            |                                   |
| Atmospheric Sciences or  | Various options**                 | 3          | Any ATM SCI 150-level or above or |
| Biological Sciences or   | Various options**                 |            | Any BIO SCI above 150 or          |
| Geosciences  | Various options**                 |            | Any GEO SCI 150-level or above    |
| <b>Technical Electives</b>   |                                   |            |                                   |
| Consult a UWM engineering advisor for the best technical elective options based on your career/degree goals. |                                   | 15         |                                   |
| <b>Free Electives</b>  |                                   |            |                                   |
| Consult a UWM engineering advisor for exact elective needs and options.                                      |                                   | 0-2        |                                   |
| <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