



# TRANSFER GUIDE

## McHenry County College to Computer 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.

*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. (MAT 175 at MCC)
2. Complete GER Oral and Written Communication Part A. (ENG 152 at MCC)
3. Complete COMPSCI 251 with a C or better grade. (CSC 122 & MCC)
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/>

|  | McHenry College coursework        | Cr.        | UWM coursework                    |
|--|-----------------------------------|------------|-----------------------------------|
| <b>General Education Requirements (GER)</b>  |                                   |            |                                   |
| Oral and Written Comm Part A   | ENG 152* ^                        | 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 Computer Programming   | CSC 121^                          | 4          | COMPSCI 250^                      |
| Professional Seminar   |                                   | 1          | EAS 200                           |
| Electrical Circuits I  | EGR 260                           | 3          | ELECENG 301                       |
| Intro to Stats-Phy Sci & Engr  |                                   | 3          | IND ENG 367                       |
| <b>Major Requirements</b>  |                                   |            |                                   |
| Intermediate Computer Program  | CSC 122^                          | 4          | COMPSCI 251^                      |
| Discrete Information Structures  |                                   | 3          | COMPSCI 317^                      |
| System Programming   |                                   | 3          | COMPSCI 337                       |
| Data Structures & Algorithms   |                                   | 4          | COMPSCI 351                       |
| Intro Software Engineering   |                                   | 3          | COMPSCI 361                       |
| Social, Prof, & Ethical Issues   |                                   | 3          | COMPSCI 395                       |
| Computer Architecture  |                                   | 3          | COMPSCI 458                       |
| Computer Networks  |                                   | 3          | COMPSCI 520                       |
| Algorithm Design & Analysis  |                                   | 3          | COMPSCI 535                       |
| Intro to Operating Systems   |                                   | 3          | COMPSCI 537                       |
| Electrical Circuits II   |                                   | 4          | ELECENG 305                       |
| Signals & Systems  |                                   | 3          | ELECENG 310                       |
| Electronics I  |                                   | 4          | ELECENG 330                       |
| Digital Logic  |                                   | 3          | ELECENG 354                       |
| Intro to Microprocessors   |                                   | 4          | ELECENG 367                       |
| Digital Logic Laboratory   |                                   | 3          | ELECENG 457                       |
| <b>Math Requirement</b>  |                                   |            |                                   |
| Calc & Analytic Geometry I   | MAT 175^                          | 5          | MATH 231^                         |
| Calc & Analytic Geometry II  | MAT 245^                          | 5          | MATH 232^                         |
| Calc & Analytic Geometry III   | MAT 255                           | 4          | MATH 233                          |
| Analytical Methods in Engr   |                                   | 4          | ELECENG 234^                      |
| <b>Biology or Chemistry Requirement</b>  |                                   |            |                                   |
| Choose One   | BIO 157                           | 4          | BIO SCI 150                       |
|  | BIO 263                           | 4          | BIO SCI 202                       |
|  | CHM 165                           | 5          | CHEM 102                          |
| <b>Physics Requirement</b>   |                                   |            |                                   |
| Physics 1 (Calculus-based)   | PHY 291^^                         | 4          | PHYSICS 209^^ & 214               |
| Physics 2 (Calculus-based)   | PHY 292                           | 4          | PHYSICS 210 & 215                 |
| <b>Technical Electives</b>   |                                   |            |                                   |
| Consult a UWM engineering advisor for the best technical elective options based on your career/degree goals. |                                   | 16         |                                   |
| <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