



# TRANSFER GUIDE

## Elgin Community 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. (MTH 190 at Elgin CC)
2. Complete GER Oral and Written Communication Part A. (ENG 102 at Elgin CC)
3. Complete Comp Sci sequence with a C or better grade in CIS 226 Computer Science III 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 Computer Programming                                                                                   | CIS 121, 223, & 226@^             | 3          | COMPSCI 250^                      |
| Professional Seminar                                                                                         |                                   | 1          | EAS 200                           |
| Electrical Circuits I                                                                                        | EGR 272                           | 4          | ELECENG 301                       |
| Intro to Stats-Phy Sci & Engr                                                                                |                                   | 3          | IND ENG 367                       |
| <b>Major Requirements</b>                                                                                    |                                   |            |                                   |
| Intermediate Computer Program                                                                                | CIS 121, 223, & 226@^             | 3          | COMPSCI 251^                      |
| Discrete Information Structures                                                                              | CIS 127^                          | 3          | COMPSCI 317^                      |
| System Programming                                                                                           |                                   | 3          | COMPSCI 337                       |
| Data Structures & Algorithms                                                                                 | CIS 121, 223, & 226@^             | 3          | 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                                                                                                | EGR 292^                          | 3          | ELECENG 354                       |
| Intro to Microprocessors                                                                                     |                                   | 4          | ELECENG 367                       |
| Digital Logic Laboratory                                                                                     |                                   | 3          | ELECENG 457                       |
| <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>Biology or Chemistry Requirement</b>                                                                      |                                   |            |                                   |
| Choose One                                                                                                   | BIO 113                           | 4          | BIO SCI 150                       |
|                                                                                                              | BIO 245                           | 4          | BIO SCI 202                       |
|                                                                                                              | CHM 142                           | 5          | CHEM 102                          |
| <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>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

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@^All three courses at Elgin CC (CIS 121, 223, & 226) must be completed with C or better grades to earn credits for COMPSCI 250, 251, & 351 at UWM.