



## **TRANSFER GUIDE**

**UWM @ Waukesha/Washington Co. to  
Electrical 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](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/>

	UWM @ Waukesha/Washington Co. CGS courses	Cr	UWM Main Campus courses
<b>GER requirements</b>		<b>15</b>	
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**
<b>Engineering Core</b>		<b>17</b>	
Intro Engineering Programming		3	COMPSCI 240
C Program Embedded Systems		3	COMPSCI 241
Professional Seminar		1	EAS 200
Fund of Electrical Engineering		3	ELECENG 101
Electrical Circuits I		3	ELECENG 301
Engineering Materials		4	MATLENG 201
<b>Major Requirements</b>		<b>37</b>	
Electrical Circuits II		4	ELECENG 305
Signals & Systems		3	ELECENG 310
Electronics I		4	ELECENG 330
Electronics II		4	ELECENG 335
Digital Logic		3	ELECENG 354
Electromagnetic Fields		3	ELECENG 361
Electromechanical Energy Conversion		4	ELECENG 362
Intro to Microprocessors		4	ELECENG 367
Random Signals & Systems		3	ELECENG 420
Capstone Design Project		5	ELECENG 595
<b>Math Requirements</b>		<b>16</b>	
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
<b>Chemistry Requirement</b>		<b>5</b>	
Gen Chem for Engineering	CGS CHE 145 or 165	5	CHEM 102 or 105
<b>Physics Requirement</b>		<b>10</b>	
Physics I & II (Calculus/Studio) or		10	PHYSICS 219 & 220
Physics I & II (Calculus w/ Lab)	CGS PHY 209, 214, 210, 215		PHYSICS 209, 214, 210, 215
<b>Technical Electives</b>		<b>24</b>	
Group A (18-24 credits)	Consult an engineering advisor for the best technical elective options based on your career/degree goals.		
Group B (0-6 credits)			
<b>Total Credits = minimum 126</b>		<b>126</b>	

\*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.