

TRANSFER EQUIVALENCY WORKSHEET

MADISON AREA TECHNICAL COLLEGE
TO
UNIVERSITY OF WISCONSIN–MILWAUKEE
COLLEGE OF ENGINEERING & APPLIED SCIENCE

| UWM General Education Requirements | UWM Equivalent | UWM Required Credits |
|---|-------------------------------|----------------------------|
| Art (Can also satisfy the 3 credit Cultural Diversity requirement) | | 3 |
| Humanities (Can also satisfy the 3 credit Cultural Diversity requirement) 3 credits of Humanities GER will need to be completed at UWM | | 6 |
| Social Science (Can also satisfy the 3 credit Cultural Diversity requirement) | | 6 |
| SUBTOTAL | | 12 |
| MATH | | |
| Math 804-231 Analytical Geometry and Calculus 1* *C or better grade required | Math 231 | 4 |
| Math 804-232 Analytical Geometry and Calculus 2* *C or better grade required | Math 232 | 4 |
| Math 804-233 Analytical Geometry and Calculus 3* *Electricals Engineers need to earn a C or better grade | Math 233 | 4 |
| Math 804-255 & 256 Ordinary Differential Equations & Matrix & Linear Algebra* *Biomedical, Computer Engineers and Mechanical Engineers need to earn a C or better grade | Elec Eng 234 | 4 |
| SUBTOTAL | | 16 |
| NATURAL SCIENCE | | |
| Bio Sci 806-207 Anatomy & Physiology 1 (Biomedical only) | Bio Sci 202 | 4 |
| Bio Sci 806-208 Anatomy & Physiology 2 (Biomedical only) | Bio Sci 203 | 4 |
| Nat Sci 806-209 Chemistry 1 (Electrical Engineering students only need to complete Nat Sci 209) | Chem 102 | 5 |
| Nat Sci 806-212 Chemistry 2 | Chem 104 | 5 |
| Nat Sci 806-223 Calculus-Based Physics 1 | Phys 209 & 214 | 5 |
| Nat Sci 806-224 Calculus-Based Physics 2* Engineers need to earn a C or better grade | *Electrical Phys 210 & 215 | 5 |
| SUBTOTAL | | 20 |
| ENGINEERING & COMPUTER SCIENCE | | |
| Math 804-215 Computer Science 1* (Computer Engineering and Computer Science Only, *C or better grade required) | Comp Sci 250 | 3 |
| Math 804-216 Computer Science 2* (Computer Engineering and Computer Science Only, *C or better grade required) | Comp Sci 251 | 3 |
| Math 804-241 Introduction to Engineering Statistics (Biomedical, Industrial, Material, Mechanical only) | Ind Eng 367 | 3 |
| GENENG 806-294 Engineering Seminar | EAS 200 | 1 |
| GENENG 806-295 Introduction to Engineering (Civil & Industrial only) | Ind Eng 111 | 3 |

| | | |
|---|---------------|---|
| GENENG 806-232 Statics (Biomedical, Civil, Industrial, Materials & Mechanical only) | Civ Eng 201 | 3 |
| GENENG 806 233 Dynamics* (Biomedical, Civil, Industrial, Materials & Mechanical only) *Biomedical and Mechanical Engineers need to earn a C or better grade | Civ Eng 202 | 3 |
| Other Prerequisite Courses (if you need background preparation in English or Math the following courses transfer to UWM, a minimum of a "C" grade is required to move to the next course at UWM) | | |
| Commsk 801-201 English 1 | Eng 101 | 3 |
| Commsk 801-202 English 2 | Eng 102 | 3 |
| Math 804-201 Intermediate Algebra | Math 105 | 3 |
| Math 804-212 College Algebra | Math 116 | 3 |
| Math 804-213 Trigonometry | Math 117 | 2 |
| Math 804-229 College Algebra and Trigonometry | Math 116 &117 | 5 |

Updated 2.2020

To be admissible to the College of Engineering & Applied Science transfer students typically have earned the following:

- A grade of a "C" or better Math 231
- A cumulative grade point average of a 3.0

Majors

Biomedical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Industrial Engineering
Materials Engineering
Mechanical Engineering

For more information contact the Office of Student Services at (414) 229-4667
ceas-adv@uwm.edu <http://www.ceas.uwm.edu>