

# STEP2UW Agreement Checklist



Select Transfer Engineering Pathway to the University of Wisconsin-Madison (STEP2UW) for Madison Area Technical College (Madison College) students interested in transferring to undergraduate degree programs in the University of Wisconsin-Madison College of Engineering (CoE)

Effective Fall 2024

Eligible STEP2UW candidates include students who qualify as <u>Wisconsin residents</u> for UW-Madison tuition purposes, attended Madison College after graduating from high school, and have not attended any other institution after graduating from high school. The STEP2UW agreement does not apply to students applying to UW-Madison as first-year students, including STEM Academy students.

Participating engineering programs include: Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Mechanics, Environmental Engineering, Geological Engineering, Industrial Engineering, Materials Science and Engineering, Mechanical Engineering, and Nuclear Engineering.

Admission to UW-Madison's College of Engineering is competitive and not guaranteed, even for students who meet the transfer preparation guidelines below. STEP2UW students must follow standard UW-Madison procedures to submit an application for transfer admission consideration in accordance with published deadlines. As off-campus transfer applicants, STEP2UW students are considered for direct admission to the College of Engineering by applying to the Office of Admissions and Recruitment with an engineering program listed as their first choice major. STEP2UW students who are selected for admission to a participating engineering program and meet the requirements below will <u>automatically meet progression requirements</u> to guarantee advancement in their intended engineering program after transfer.

STEP2UW students are expected to pursue their selected engineering program through graduation. Although there is an interdepartmental transfer process for students to apply to be considered for a different engineering program after transfer, interdepartmental transfer is competitive and not guaranteed.

Students who do not meet the STEP2UW eligibility requirements or would like to be considered for admission to the Engineering Physics program may apply for general transfer admission consideration and, if admitted, must meet progression requirements at the point of transfer or within their first two semesters at UW-Madison to be guaranteed permission to continue in an engineering program.

# \_\_\_\_1. Submit the *STEP2UW Agreement* prior to completing 30 transferable credits as a post-secondary student at Madison College.

## \_2. Consult regularly with Madison College and UW-Madison CoE advisors.

o Meet with a Madison College Engineering Faculty Advisor at least once per semester. Advising hours vary by semester. Up-to-date hours are posted on the Engineering Transfer Resources website: <u>https://madisoncollege365.sharepoint.com/sites/EPM/SitePages/EPM-Home.aspx</u>

o Meet with a UW-Madison CoE transfer advisor as needed; to schedule an appointment, email a copy of your unofficial Madison College transcript, your availability, and your preference for an in-person/Zoom/phone meeting to <u>ugtransfer@engr.wisc.edu</u>.

## \_3. Fulfill UW-Madison minimum transfer admission requirements.

o 24 transferable semester credits completed after high school graduation (excluding AP and other test credits)

- o Algebra (one year high school or equivalent)
- o Plane geometry (one year high school or equivalent; must be college track)
- o College preparatory math (one year high school or equivalent)
- o Single world language (two high school years or two college semesters)

#### \_4. Fulfill CoE minimum transfer progression requirements.

a. Establish equivalent credit through test credit (see UW-Madison AP Exam policy below ^) or coursework (see 4.c.) for:

- o Math 221, 222, and 234
- o Chemistry 103 (and 104, if required for the selected engineering program) or 109
- o Physics 201 or EMA 201
- b. Complete Communications Part A

o 20-801-201 English 1 (3 credits; or equivalent course) UW-Madison equivalent: Comm A If Comm A is satisfied by test credit ^, complete a graded 3-credit liberal studies course with Humanities, Social Science, or Literature breadth

c. Complete a minimum of six Madison College core courses from the list below. Any course taken from the list below must be passed with a grade of B or better. Only one course can be repeated and have the grade replaced to meet the B or better grade requirement.
o 20-804-231 Calculus and Analytic Geometry 1 (5 credits) Math 221
o 20-804-232 Calculus and Analytic Geometry 2 (5 credits) Math 222
o 20-804-233 Calculus 3 (5 credits) Math 234
o 20-804-255 Ordinary Differential Equations (3 credits) Math 319
o 20-804-256 Elementary Matrix & Linear Algebra (3 credits) Math 340
o 20-806-209 College Chemistry 1 (5 credits) Chemistry 103
o 20-806-212 College Chemistry 2 (5 credits) Chemistry 104
o 20-806-259 Chemistry for Science & Engineering (5 credits) Chemistry 109
o 20-806-223 College Physics 1-Calculus Based (5 credits) Physics 201
o 20-806-232 Statics (3 credits) EMA 201
o 20-806-233 Dynamics (3 credits) EMA 202

\_\_\_\_\_5. Recommended: Complete additional Madison College courses to enhance preparation for engineering studies. Most competitive applicants will exceed the minimum of 6 core course requirements listed above. The additional courses listed in the appendix will count only toward certain UW-Madison CoE degree programs. Consult with your Madison College Engineering Faculty Advisor to ensure you are taking the courses that best match your intended engineering program.

#### 6. Achieve a minimum 3.0 grade point average (GPA) in all transferable college courses taken.

Most competitive applicants will exceed this minimum GPA. The students we typically see selected for admission usually have a GPA between 3.2 – 4.0. CoE will compute the GPA in accordance with UW-Madison's transfer admission practices and will include grades for all transferable courses, including repeated courses and any transferable college courses taken at other institutions during high school. Note: Courses must be passed with at least a C final grade (2.0 on a 4.0 scale) for transfer credits to count towards CoE degree requirements.

# \_\_\_\_7. Complete at least two semesters of full-time study (minimum of 12 credits) in transferable courses that include at least two core courses per semester taken from 4.c. or the appendix.

Note: College of Engineering students at UW-Madison are required to attend classes on a full-time basis (12-18 credits per semester).

8. Fulfill the STEP2UW requirements within five years of submitting the STEP2UW Agreement at Madison College.

\_\_\_\_9. STEP2UW students must follow standard UW-Madison procedures to submit an application for transfer admission consideration in accordance with published deadlines. When applying for transfer admission consideration, submit one letter of recommendation from a Madison College math, science, or engineering instructor.

\_\_\_\_10. Admitted students who have courses in progress at the time of application must maintain current course enrollment and earn a minimum 3.0 term GPA for courses completed in the semester prior to transfer with no grades below a C (2.0 on a 4.0 scale).

<sup>^</sup> UW-Madison Advanced Placement (AP) Exam policy: Calculus AB score of 4 or 5 = Math 221 Calculus BC score of 4 or 5 = Math 221-222 Chemistry score of 4 or 5 = Chem 103 Physics C Mechanics score of 4 or 5 = Physics 201 Physics C Electricity and Magnetism score of 4 or 5 = Physics 202 English Language/Literature score of 4 or 5 = Communications Part A

#### Madison College courses that fulfill degree requirements in <u>all</u> CoE programs.

Madison College Course								
English 1	801	201	3 cr					
Chemistry for Science & Engineering	806	259	5 cr					
Calculus 1	804	231	5 cr					
Calculus 2	804	232	5 cr					
Calculus 3	804	233	5 cr					
Either Univ Physics 1-Calc-Based*	806	223	5 cr					
or Statics*	806	232	3 cr					
*Take the course preferred by the engineering program of interest.								
University Physics 2-Calc-Based	806	224	5 cr					

UW-Madison Course Equivalency Communication Part A Chemistry 109 Advanced General Chemistry Math 221 Calculus & Analytic Geometry 1 Math 222 Calculus & Analytic Geometry 2 Math 234 Calc – Func of Several Variables Physics 201 General Physics (calculus based) EMA 201 Statics

Physics 202 General Physics (calculus based)

#### Madison College courses that might fulfill CoE degree requirements, depending on the program of interest.

Madison College Course			UW-Madison Course Equivalency			
806	295	3 cr	InterEgr 170	Design Practicum		
804	255	3 cr	Math 319*	Techn in Ordinary Differential Equations		
804	256	3 cr	Math 340*	Elementary Matrix & Linear Algebra		
			*Math 319 + 340 satisfies Math 320.			
804	265	3 cr	Math 240	Introduction to Discrete Mathematics		
804	215	3 cr	Comp Sci 200	Programming I		
804	216	3 cr	Comp Sci 300	Programming II		
804	217	3 cr	Comp Sci 220	Data Sci Programming		
804	241	3 cr	Statistics 324	Intro Stats for Engineers		
806	233	3 cr	EMA 202	Dynamics		
806	234	4 cr	EMA 303 (3cr) +	IA 303 (3cr) + 307 (1cr) Mechanics of Materials and Lab		
806	209	5 cr	Chem 103	General Chemistry I		
806	212	5 cr	Chem 104	General Chemistry II		
806	256	4 cr	Chem 343	Intro Organic Chem		
806	257	4 cr	Chem 345	Intmed Organic Chem		
806	266	2 cr	Chem Elective*	*OChem 1 + 2 Labs = CHEM 344		
806	267	2 cr	Chem Elective*	*OChem 1 + 2 Labs = CHEM 344		
606	231	3 cr	ME 231	Intro Engineering Graphics; sub for CEE 159		
605	270	3 cr	ECE Elective	sub for ECE 210 after transfer to CoE		
662	252	3 cr	ECE 252	Introduction to Computer Engineering		
662	121	3 cr	ECE Elective*	*Circuit Modeling 1 + 2 = ECE 230 and 270		
662	221	4 cr	ECE Elective*	*Circuit Modeling 1 + 2 = ECE 230 and 270		
801	198	3 cr	Com Arts 105	Public Speaking		
806	203	5 cr	Zoology 101 (3 c	r) + 102 Lab (2 cr) Animal Biology and Lab		
806	271	5 cr	Zoology 151	Introductory Biology		
806	272	5 cr	Zoology 152	Introductory Biology		
806	244	4 cr	Geoscience 100	Introductory Geology		
809	212	3 cr	Economics 101	Principles of Microeconomics		
809	211	3 cr	Economics 102	Principles of Macroeconomics		
809	228	3 cr	Economics 343	Environmental Economics		
806	236	4 cr	GEOG/CEE 377	Intro to Geog Info Systems		
806	235	3 cr	PHYSICS 241	Modern Physics		
	806 804 804 804 804 804 804 806 806 806 806 806 806 806 806 806 806	806       295         804       255         804       256         804       215         804       215         804       215         804       215         804       215         804       217         804       217         804       217         804       217         804       217         804       217         806       233         806       209         806       209         806       256         806       257         806       266         806       267         605       270         662       252         662       121         662       252         662       121         806       203         806       203         806       271         806       271         806       244         809       212         806       236         806       236         806       236         806       2	806       295       3 cr         804       255       3 cr         804       256       3 cr         804       265       3 cr         804       215       3 cr         804       215       3 cr         804       215       3 cr         804       217       3 cr         804       217       3 cr         804       241       3 cr         806       233       3 cr         806       234       4 cr         806       209       5 cr         806       256       4 cr         806       256       4 cr         806       266       2 cr         806       267       2 cr         806       267       2 cr         605       270       3 cr         662       252       3 cr         662       251       4 cr         806       203       5 cr         806       203       5 cr         806       271       5 cr         806       272       5 cr         806       272       5 cr         806	UW-Madison Co           806         295         3 cr         InterEgr 170           804         255         3 cr         Math 319*           804         256         3 cr         Math 340*           *Math 319 + 340 s         *Math 319 + 340 s           804         265         3 cr         Math 240           804         265         3 cr         Comp Sci 200           804         215         3 cr         Comp Sci 200           804         216         3 cr         Comp Sci 220           804         217         3 cr         Comp Sci 220           804         217         3 cr         Comp Sci 220           804         241         3 cr         Statistics 324           806         233         3 cr         EMA 202           806         234         4 cr         EMA 303 (3cr) +           806         256         4 cr         Chem 104           806         257         4 cr         Chem 343           806         267         2 cr         Chem Elective*           806         267         2 cr         Chem Elective*           806         267         3 cr         ECE Elective*		

For information about Madison College, see: https://madisoncollege.edu/academics/programs/associate-engineering

Course offerings and equivalencies are subject to change. Always consult **Transferology** (<u>https://www.wisconsin.edu/transfer/</u>) for up-to-date transfer credit equivalencies. For more details about **CoE's transfer process**, visit <u>https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/</u>. **Additional courses are available** that will fulfill CoE degree requirements, especially the liberal studies requirements. Consult engineering curriculum guides for the specific degree requirements: <u>https://guide.wisc.edu/undergraduate/engineering/#degreesmajorscertificatestext</u>.

Communication Part B: CoE students satisfy Comm B with INTEREGR 397: Engineering Communication taken at UW-Madison.