

TRANSFER GUIDE

Catalog Years: 2025-2026

University of Mary Washington Bachelor of Science in Chemistry
Associate Transfer Degree Plan in Chemistry
COURSE REQUIREMENTS

Complete at VCCS			Complete at UMW		
BACHELOR'S DEGREE REQUIREMENT	SATISFIED BY		BACHELOR'S DEGREE REQUIREMENT		
Course	Credits	CC Course	Course	Credits	Notes
	1-2	SDV 100 College Success Skills or 101 Orientation	CHEM 253 Chemical Analysis I w/lab	4	prerequisite: CHEM 112 with a C or better Fall semester only
Writing Intensive Gen Ed	3	ENG 111 College Comp I	CHEM 254 Chemical Analysis II w/Lab	4	prerequisite: CHEM 112 with a C or better Spring semester only
Writing Intensive Gen Ed	3	ENG 112 College Comp II or 113 Tech Prof Writing	CHEM 383A Physical Chemistry I lecture	3	Prerequisites: MATH 122, PHYS 102 or PHYS 106, and a grade of C or better in CHEM 112 Fall semester only
Humanities Gen Ed	3	Any UCGS Humanities	CHEM 387A Physical Chemistry I Laboratory	2	prerequisites: CHEM 253, CHEM 254 co-requisite: CHEM 383A Writing Intensive Gen. Ed Fall semester only
Art and Literature Gen Ed	3	Any UCGS Art, or Literature	CHEM 384A Physical Chemistry II Lecture	3	prerequisites: MATH 122, PHYS 102 or PHYS 106, a grade of C or better in CHEM 112, and CHEM 383A spring semester only
Social Science Gen Ed	3	Any UCGS Social & Behavioral Science	CHEM 388A Physical Chemistry II Laboratory	2	prerequisites: CHEM 253, CHEM 254, CHEM 387A co-requisite: CHEM 384A Speaking Intensive Gen. Ed spring semester only

CHEM 111 General Chemistry I w/lab	4	CHM 111 Chemistry I	In person lab required, counts as Natural Science Gen Ed	CHEM 423 Experimental Methods Chemistry w/lab	4	prerequisites: CHEM 212, CHEM 253 and CHEM 254 Writing Intensive Gen Ed. Fall semester only
MATH 121 Calculus I	4	MTH 263 Calc I	Counts as Quantitative Reasoning Gen Ed	Senior Seminar CHEM 453	2	offered spring semesters prerequisite: graduating majors with major GPA of 2.0 or higher or with permission of the department Speaking Intensive Gen. Ed.
General Education	3	Any UCGS History				
CHEM 112 General Chemistry II w/lab	4	CHM 112 Chemistry II	In person lab required			
MATH 122 Calculus II	4	MTH 264 Calculus II				
PHYS 101-102 General Physics I and II w/lab OR PHYS 105-106 University Physics I or II w/lab	8	PHY 241 - 242 Univ Physics I & II OR PHY 201 - 202 College Physics I & II	Students should take one of these sequences; either will count in the major. Counts as Natural Science Gen Ed			
CHEM 211 Organic Chemistry I w/ lab	5	CHM 241 Organic Chem I and CHM 245 Organic Chem Lab I				
CHEM 212 Organic Chemistry II w/lab	5	CHM 242 Organic Chem II and CHM 246 Organic Chem Lab II				
	Up to 9	If students have completed all prerequisites and other college requirements, they can select up to 9 credits from: BIO 101 General Biology I BIO 102 General Biology II BIO 206 Cell Biology MTH 245 Statistics Additional transfer courses.				

	Up to 9	Math prerequisites (MTH 161 PreCalculus I / MTH 162 PreCalculus II, MTH 167 PreCalculus with Trigonometry), World Languages, or other college requirements.	If students have room in schedule, additional Chemistry or transfer electives can be taken.			
CREDITS PRE-TRANSFER: 60-62				CREDITS POST-TRANSFER: 58-60		

TRANSFER GUIDANCE

Guaranteed Admission to University of Mary Washington

By meeting the following criteria, you are eligible for admission. Separate admission to the Chemistry program is not required.

- Earn a transfer associate degree
- Earn a minimum GPA of 3.0 for your associate degree
- Earn grades of "C" or higher in all your courses for the associate degree to be eligible to transfer those credits
- Contact UMW before taking any online lab

Please create an account through the www.TransferVirginia.org portal to indicate your intent to use this guarantee for admission to the University of Mary Washington.

IMPORTANT LINKS & DATES:

University Transfer Center: <https://www.umw.edu/admissions/transfer>

Register Intent to Transfer: After the first 45 credits: Complete the "letter of intent" and have your community college advisor complete the advisor section. Your advisor will send it to admit@umw.edu.

Admission Application:

Apply by October 15 for spring admission, March 1 for summer admission, and April 1 for fall admission. Additional details and a transfer checklist are available at <https://www.umw.edu/admissions/transfer/>

Financial Aid:

<https://www.umw.edu/financialaid/>

FAFSA - Free Application for Federal Student Aid:

Apply by April 1 to ensure you receive the maximum aid for which you are eligible. FAFSA will still be accepted after the April 1 deadline. The required forms are found at studentaid.gov

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Create a schedule for all required courses, pay attention to prerequisites and when courses are offered, complete your first math and English courses in your first year. For help, see Transfer Steps and Resource Center at www.TransferVirginia.org
- Connect with an advisor at your community college and the University of Mary Washington within your first year. College Connect available in your account at www.TransferVirginia.org
- UMW requires proficiency in a second language as part of the general education requirements. This can be satisfied in a number of ways including completing four years of language in high school, transferring credits from a community college, or completing a sequence of language courses through the 201 level at UMW. American Sign Language is accepted for transfer as a second language. All of the options for satisfying this requirement are found in the UMW Catalog: <https://catalog.umw.edu/undergraduate/general-education/general-education-course-list/>

IS THIS DEGREE RIGHT FOR ME?

Chemistry is known as the "central science" because it connects all of the other sciences-biology, physics, astronomy, physics, earth and environmental sciences, geology, engineering etc.

- A chemistry degree can prepare you for over 40 career fields. You can explore those here: <https://www.acs.org/careers/chemical-sciences/fields.html>
- Chemists work in all job sectors, from academic jobs, government jobs, nonprofit agencies and the chemical industry.
- The Department of Chemistry of the University of Mary Washington is an American Chemical Society (ACS) approved program.
- Our program is based upon a modern curriculum and is supported by well-equipped laboratories that supplement and extend classroom instruction.

WHAT IS THE IMPACT ON MY DEGREE OF WORK I HAVE ALREADY COMPLETED?

Associate Transfer Degree Completion: Transfer students with a VCCS transferable degree have completed the UMW general education requirements except second language competency, digital intensive, diverse and global perspectives, After Mary Washington, and beyond the classroom general education requirements. Several of these requirements are integrated into the chemistry major. UMW does allow students to satisfy these requirements through qualifying transfer coursework.

Dual Enrollment - Completion of Associate Degree in HS: Students participating in dual enrollment programs are considered as freshman applicants. Dual enrollment courses taken at the high school are treated identically with the same course when taken on a college campus; dual enrollment status does not affect the transferability of the course.

Credit for Prior Learning: UMW accepts credit for AP, IB, CLEP, Cambridge, and other qualifying previous coursework. Equivalencies are provided here: <https://academics.umw.edu/registrar/transfer-information/transferring-credit-ap-ib-or-previous-coursework/> Virginia Community College System courses which receive guaranteed equivalent credit are provided here: <https://academics.umw.edu/registrar/transfer-information/resources-and-publications/babs-transfer-credit-guide/transferrable-credit/virginia-community-college-system-vccs/>

Catalog Year: Students must complete general education requirements associated with the academic year that they enroll at UMW. Completion of a transferable associate degree waives many, but not all, general education requirements. Please contact UMW Admissions for more information, if needed. Students complete major requirements associated with the academic year in which they declare their major.

IS THIS COLLEGE RIGHT FOR ME?

- UMW will feel like home. Our campus is gorgeous, green, and full of opportunity. Join a club sports team. Audition for a musical. Lead the way in the Student Government Association. Train with our esports team. Or sit back, relax, and take it all in from the cozy comfort of Ball Circle.
- UMW is a small university located in Fredericksburg, VA. We offer small class sizes and courses are taught by faculty committed to student learning and success.

- UMW offers high impact experiences beyond the classroom, including undergraduate research opportunities and internships: <https://cas.umw.edu/chemistry/research-and-internships/>
- UMW is located between Washington, DC, and Richmond, VA, in the largest technology corridor in Virginia.
- Learn more about our college at www.TransferVirginia.org

DID YOU KNOW THAT...

- UMW has a co-enrollment agreement with Germanna Community College which allows Germanna students to take up to five courses at UMW to transfer back to their Germanna associate degree program. This allows students to receive UMW course experiences at Germanna tuition rates. Students must submit a letter of intent after completing 15 credits at Germanna: <https://www.umw.edu/admissions/wp-content/uploads/sites/6/2022/05/Germanna-CoEnrollment-Form2022.pdf>
- Completing your Associate transfer degree post-high school satisfies all lower division general education requirements and increases the chance of completing your bachelor's degree?

- Exceeding 3 years or 90 credits at your community college means you may have exhausted your financial aid at that college and have limited your future financial aid at the University of Mary Washington?

WHAT CAN I DO WITH THIS DEGREE?

Explore possible careers, salaries, and job outlook at www.TransferVirginia.org and <https://www.acs.org/careers/chemical-sciences.html>

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- Students must earn at least 30 credits at UMW as a degree-seeking student (not including physical education credits).
- Students must earn a GPA of 2.0 in both their major and overall coursework in order to complete their degree.