Radford University Bachelor of Science in Chemistry (Advanced Professional Chemist – ACS)

TRANSFER GUIDE
Catalog Years: 2024-2025

Associate Transfer Degree Plan in Chemistry

COURSE REQUIREMENTS

Complete at VCCS				Complete at Radford University		
BACHELOR'S DEGREE REQUIREMENT	**SATISFIED BY**			**BACHELOR'S DEGREE REQUIREMENT**		
Course	**Credits**	**CC Course**	**Notes**	**Course**	**Credits**	**Notes**
UNIV 100	1-2	SDV 100 College Success Skills or 101 Orientation		CHEM 216 Inorganic Chemistry	3	Prerequisite is CHEM 112
ENG 111	3	ENG 111 College Comp I		CHEM 324 Analytical Chemistry	4	Prerequisite is CHEM 112
General Education	3	ENG 112 College Comp II or 113 Tech Prof Writing		CHEM 401 Physical Chemistry I	4	Prerequisite is CHEM 112, MATH 172, and PHYS 112 or PHYS 222
General Education	3	Any UCGS Art or Humanities	These two courses must come from two different disciplines.	CHEM 471 Biochemistry I	3	Prerequisite is BIOL 105 or 132, CHEM 301
General Education	3	Any UCGS Art, Humanities, or Literature		BIOL 132 Biology of Cells and Microorganisms	4	If not taken at CC
General Education	3	Any UCGS Social & Behavioral Science (not History)		CHEM 402 Physical Chemistry II	4	Prerequisite is CHEM 401
CHEM 111 General Chemistry I	4	CHM 111 Chemistry I		CHEM 416 Inorganic Chemistry	4	Prerequisite is CHEM 216
MATH 171 Calculus and Analytical Geometry I	4	MTH 263 Calc I		CHEM 421 Polymer Chemistry	3	Prerequisite is CHEM 302
General Education	3	Any UCGS History		CHEM 424 Instrumental Analysis	4	Prerequisite is CHEM 324
CHEM 112 General Chemistry II	4	CHM 112 Chemistry II		CHEM 3/4x	3	

MATH 172 Calculus and Analytical Geometry II	4	MTH 264 Calculus II		CHEM 450 Career and Professional Development	2	Prerequisite is CHEM 302
PHYS 221-222 Physics I and II OR PHYS 111-112 General Physics I and II	8	PHY 241 - 242 Univ Physics I & II OR PHY 201 - 202 College Physics I & II		CHEM 481 Undergraduate Research	1	instructor permission
CHEM 301 (4 credits) Organic Chemistry I	5	CHM 241 Organic Chem I and CHM 245 Organic Chem Lab I		CHEM 485 Capstone Project	2	instructor permission
CHEM 302 (4 credits) Organic Chemistry II	5	CHM 242 Organic Chem II and CHM 246 Organic Chem Lab II				credits to make 120 hours
BIOL 132 Biology of Cells and Microorganisms	4	BIO 101 General Biology I	required course			
	Up to 5	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 Agreement

By meeting the following criteria, students who complete the prescribed curriculum and meet the criteria below are guaranteed admission into Radford University.

- Earn a transferable associate degree
- Earn a minimum 2.8 cumulative GPA
- Be in good standing at the current institution

Please visit the TransferVirginia.org portal to explore different majors (Transfer Tools) and Transfer Guides that outline course requirements for specific majors. (Resource Center)

IMPORTANT LINKS & DATES:

- **University Transfer Center:** https://admissions.radford.edu
- **Admission Application:** By March 1 for Priority Fall Admission and November 1 for Priority Spring Admission at https://radford-info.org/transfer/
- **Financial Aid:** https://www.radford.edu/fin-aid
- **FAFSA - Free Application for Federal Student Aid:** Priority deadline is February 1; apply online at https://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, view the Transfer Steps and Resource Center at www.TransferVirginia.org
- Connect with an advisor at your community college and Radford University within your first year. Set up an account at www.TransferVirginia.org

IS THIS DEGREE RIGHT FOR ME?

- A degree in chemistry from Radford University provides students with critical thinking, problem-solving, and foundational skills that prepare them for future success in many fields, including chemical industry, government labs, and continuing education in graduate, medical, pharmacy, and other professional programs.
- Our graduates have jobs where they help design pharmaceuticals, monitor the environment, synthesize and analyze high performance materials, and contribute to cutting edge research.

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

- **Associate Transfer Degree Completion:** The completion of the transfer-oriented degree program will satisfy the REAL Curriculum (lower division/general education) requirements Students will need to complete all other University, college, and departmental requirements in order to obtain the baccalaureate degree from RU
- **Dual Enrollment – Completion of Associate Degree in HS**: Students completing the associate degree in high school should apply using the freshman application. If admitted, the student will receive the benefits associated with the transferable associate degree (as noted prior)
- **Credit for Prior Learning:** AP, IB, and CLEP will be evaluated for credits (based on receipt and evaluation of scores). See https://catalog.radford.edu/content.php?catoid=55&navoid=2617
- **Catalog Year:** Students will be subject to the catalog in effect at the time of enrollment at RU unless otherwise requested.

IS THIS COLLEGE RIGHT FOR ME?

- Located in the city of Radford, Radford University's campus community is well-known for strong faculty/student connections, vibrant student life and a commitment to student support.
- Situated in the stunning landscape of southwest Virginia, there are plenty of nearby opportunities to explore the outdoors.
- With 70+ bachelor's degree programs across a variety of disciplines, the classes at Radford are hands-on and held in state-of-the-art facilities designed to prepare for your chosen career path.
- Transfer students have the option to live on-campus or off-campus in the local area.
- Over 80% of students receive some form of financial aid.
- 16 Division 1 teams and 300+ student organizations.

Learn more about our college at www.TransferVirginia.org

DID YOU KNOW THAT…

- 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 Radford University.

WHAT CAN I DO WITH THIS DEGREE?

Explore possible careers, salaries, and job outlook at www.TransferVirginia.org
https://www.radford.edu/content/csat/home/chemistry/alumni.html

PROGRAM SUCCESSES & HIGHLIGHTS

- The Department is equipped with modern instrumentation that is utilized in teaching and undergraduate research - https://www.radford.edu/content/csat/home/chemistry/facilities-and-instrumentation.html
- Undergraduates give presentations at National American Chemistry Society meetings.
- Faculty publish undergraduate research in chemistry journals.

WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

- Of students who apply, usually about 65% of transfer applicants are accepted to Radford University and about 80% of the entering transfer class comes from the Virginia Community College System. Learn more about applying at www.TransferVirginia.org

DO MORE WITH YOUR DEGREE!

- https://www.acs.org/careers/chemical-sciences.html

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- All students must complete a total of at least 120 credit hours.
- Overall GPA on all Radford University courses must be at least 2.0.
- Overall GPA on courses in major taken at Radford University must be at least 2.0.