

COURSE REQUIREMENTS

Complete at VCCS				Complete at Longwood University		
BACHELOR'S DEGREE REQUIREMENT	SATISFIED BY			BACHELOR'S DEGREE REQUIREMENT		
Course	Credits	CC Course	Notes	Course	Credits	Notes
Does not transfer.	1-2	SDV 100 OR 101		Civita Perspectives	9	Completed prior to Civita Symposium.
ENGL 165	3	ENG 111		Symposium	3	Completed Senior Year.
ENGL 1XX	3	ENG 112		PHYS 222	2	
ANY	3	Any UCGS Art or Humanities	These two courses must come from two different disciplines.	PHYS 223	2	
ANY	3	Any UCGS Art, Humanities, or Literature		PHYS 324	3	
ANY	3	Any UCGS Social & Behavioral Sciences (not History)		PHYS 332	3	
ANY	3	Any UCGS History		PHYS 352	3	
MATH 261	4	MTH 263 Calculus I		PHYS 370	3	
PHYS 220	4	PHY 241 University Physics I	Prerequisite: students must have completed MTH 263 with a C or better	MATH 362	3	
MATH 262	4	MTH 264 Calculus II		Concentration requirements	13-28	Depends on selected concentration.
PHYS 221	4	PHY 242 University Physics II	Prerequisite: students must have completed PHY 241 and MTH 264 with a C or better	General electives	1-16	As needed to complete 120 total credits.
MATH 361	4	MTH 265 Calculus III				
MATH 2XX	3	MTH 267 Differential Equations				
MATH 280	3	MTH 266 Linear Algebra				
CHEM 111 For Biophysics:	4-8	CHM 111				

CHEM 112		If interested in Biophysics concentration, students should also choose CHM 112 = CHEM 112. MTH 167 = MATH 164 (4 credits) recommended if needed; is a prerequisite for Calculus 1.				
PHYS 321 For Biophysics: CHEM 211 CHEM 212 CHEM 213 CHEM 214 For Engineering Physics: PHYS 252	6-13	Choose PHY 243 = PHYS 321. If interested in Biophysics concentration, students should take CHM 241, 242, 245, and 246 (CHEM 211, 212, 213, 214). If interested in Engineering Physics, students should take EGR 240 = PHYS 252.				
CREDITS PRE-TRANSFER: 60-62				CREDITS POST-TRANSFER: 60		

Guaranteed Admission Agreement (GAA): Longwood University and VCCS

By meeting the following criteria, students are eligible for completion of all Foundation-level courses as well as the Integrating World Languages Perspectives-level course associated with LU's Civitae general education experience (<https://www.longwood.edu/civitae/>).

- A cumulative GPA of 2.5 or higher on a four-point scale, computed as shown on the two-year institution transcript.
- Earn a grade of "C" (2.0) or higher in each community college course.
- Disciplinary records are reviewed and evaluated on a case-by-case basis and could affect the student's eligibility.
- Students must complete an AA, AS, or AA&S degree through the VCCS with at least 60 credits.
- Submit to the LU Admissions Office an official transcript showing completion of the applicable associate's degree. Until LU receives the official transcript showing degree conferred, the terms of the GAA will not be applied.

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

IMPORTANT LINKS & DATES:

- **University Transfer Center:** <http://www.longwood.edu/admissions/transfer-students/>
- **Register Intent to Transfer:** Not required.
- **Admission Application:** By March 1 for fall admission, although we continue to review applications after the March 1 date. Apply at <http://www.longwood.edu/apply/>.
- **Financial Aid:** <http://www.longwood.edu/financialaid/>.
- **FAFSA - Free Application for Federal Student Aid:** The FAFSA priority filing deadline is March 1. We recommend filing early (at www.studentaid.gov) to ensure you receive the maximum amount of aid.

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Create a schedule for all required courses, pay attention to prerequisites and when courses are offered, and complete your first math and English courses in your first year. For help, see Transfer Steps and Resource Center (www.TransferVirginia.org).
- Connect with an advisor at your community college and Longwood within your first year. Use the College Connect feature in the portal (www.TransferVirginia.org).
- Students interested in a minor should plan to take preliminary coursework as available.
- To complete all Longwood requirements in two years, careful planning will be necessary. Students should choose their associate degree electives carefully to increase the likelihood of completing the Longwood degree in four semesters. It is not uncommon for transfers into this major to take five semesters.

IS THIS DEGREE RIGHT FOR ME?

- Longwood's degree program offers an in-person, face-to-face learning experience for students seeking a Physics degree.
- Students can choose from one of three concentrations – a general Physics concentration, an Engineering Physics concentration, or a concentration in Biophysics. Students interested in teaching secondary science should see the secondary education plan.
- Students complete a variety of Civitae Core Curriculum Courses specific to Longwood's Mission that are designed to equip students to become citizen leaders in their own disciplines and communities.

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

- **Associate Transfer Degree Completion:** Completion of all Foundation-level courses as well as the Integrating World Languages Perspectives-level course associated with LU's Civitae general education experience.
- **Credit for Prior Learning:** LU accepts credit for CLEP, Advanced Placement, International Baccalaureate, Cambridge, military training/experience, or other forms of advanced standing, which will be evaluated on a case-by-case basis. Students under this GAA who have credit for prior learning receive the overarching benefits of the GAA but must present documentation from the original agency or experience as part of a course-by-course credit evaluation to determine applicability to specific coursework or major requirements.
- **Catalog Year:** In accord with state policy, students may choose the catalog in effect at the time they enroll at Longwood or the one that applies to continuous full-time students at their class level.
- **Completion of Associate Degree in HS through Dual Enrollment:** High school students who have earned an applicable associate's degree concurrent with high school graduation are not eligible for guaranteed admission under the terms of this agreement. Such students are considered freshman applicants with transfer credit. If admitted, no distinction will be made by LU regarding college courses applicable to the transferable associate's degree that are completed through dual enrollment. Those students completing applicable associate's degrees, upon receipt of the final official transcript demonstrating completion of the GAA requirements, will be awarded a waiver for Foundation-level courses as well as the Integrating World Languages Perspectives-level course. However, the following will be required of these students to support their transition to Longwood: A. They must attend freshman orientation. B. They must live in on-campus housing unless qualified for a release. On-campus housing is guaranteed for these students. C. They must enroll and pass ENGL 265, The Writing and Rhetoric of Citizenship.

IS THIS COLLEGE RIGHT FOR ME?

- Longwood is a mid-sized university where students enjoy the highest percentage of classes taught by full-time professors in Virginia and a residential academic community that offers students the full university experience.
- Our Civitae Core Curriculum classes are capped at 25 students, and class sizes throughout our majors, minors, and concentrations encourage faculty-student collaboration.
- Opportunities for student involvement are a hallmark of the Longwood experience. From service organizations, Greek life, club sports, and a long list of clubs based on interests and activities, there is something for everyone. Each semester, an involvement fair helps students find organizations that are the right fit for them to make their time at Longwood even more meaningful.
- With seven on-campus residence halls and two university-managed apartment complexes, students live, learn, and grow together in a true community.
- Learn more at www.TransferVirginia.org.

DID YOU KNOW THAT...?

- Completing your transfer associate degree post-high school satisfies all lower-division general education requirements and increases the likelihood of completing your bachelor's degree.
- Exceeding three 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 Longwood University.

WHAT CAN I DO WITH THIS DEGREE?

- Explore possible careers, salaries, and job outlook at www.TransferVirginia.org

PROGRAM SUCCESSES & HIGHLIGHTS

- Like to know how things work? If it's answers you're after, join Longwood's Physics department. Our program centers on the basic principles and phenomena of the universe. Let us help you discover why matter, well, matters.
- Examine the basic principles and phenomena of the universe in one of our four concentrations:
 - General physics
 - Engineering physics
 - Biophysics
 - Dual-degree engineering
 - Teacher Preparation

WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

- Typically, Longwood admits 85% of transfer applicants who seek admission outside of the GAA. The average GPA for admitted transfer students tends to be 3.2-3.5.
- Learn more at www.TransferVirginia.org.

DO MORE WITH YOUR DEGREE!

- Launch into one of these stellar jobs with a degree in physics.
 - Planetary Scientist
 - Automotive Design Engineer
 - Renewable Energy Managers
 - Research and Development Consultant
 - NASA Laboratory Technician
 - Medical School
 - High School Physics Teachers

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- An internship or capstone is required in some concentrations of the program.
- Students will need a vehicle for an internship experience.