

# Longwood University BA/BS in Computer Science

## Associate Transfer Degree Plan in Computer Science

### COURSE REQUIREMENTS

#### Complete at a Virginia Community College

#### Complete at Longwood University

BACHELOR'S DEGREE REQUIREMENT		SATISFIED BY			BACHELOR'S DEGREE REQUIREMENT		
Course	Credits	Gen ED*	CC Course	Notes	Course	Credits	Notes
No transfer credit.	1-2		SDV 100 OR 101		Upper-level Gen Ed	9	Completed prior to Symposium
ENGL 165	3	PUA	ENG 111		Symposium	3	Completed Senior Year
ENGL 1XX	3	UA	ENG 112 OR 113		CMSC 160	4	
Gen Ed req.	3	PUA	Any Humanities or Fine Arts		CMSC 162	4	
	3	UA	Any Humanities, Fine Arts, or Lit	This course must come from a different group than prior requirement.	CMSC 283	0	
Gen Ed req.	3	PUA	Any History		CMSC 201	3	
Gen Ed req.	3	PUA	Any Social/Behav Science	This course may not be a history course.	CMSC 208	3	
Gen Ed req.	4	PUA	BIO 101; CHM 111; PHY 241; GOL 105, 106, 110		CMSC 242	3	
MATH 261	4	PUA	MTH 263		CMSC 442	3	
MATH 171	3	UA	MTH 245		CMSC 461	3	
	4	UA	BIO 102; CHM 112; GOL 105-106-110; PHY 242; MTH 245, 264, 265; CST 100 OR 110; World Languages	World Language recommended.	CMSC 483	0	
CMSC 140	3		CSC 221	Students will learn two languages over the course of the CSC 221-222-223 Sequence. Languages: C++, JAVA, Python	ENGL 319	3	

CMSC 1XX	4		CSC 222		CMSC upper-level electives	9	
CMSC 262	4		CSC 223		General electives	3	
MATH 175	3		CSC 208 OR MTH 288				
CMSC 2XX	3		CSC 215				
	9		Additional science as above plus PHY 201, CSC 205, CSC Fundamentals of Cyber Security (under dev), EGR 121, EGR 122, EGR 270, CST 100, CST 110, World Languages, MTH 265, MTH 266, Prerequisite Courses: MTH 161/162, MTH 167	MTH 167 (MATH 164 at Longwood) is a pre-requisite to MTH 263, and should be taken if needed.			
			Select course from previous list.	Only needed if total credits is below 60.			
			Select course from previous list.	Only needed if credit total is below 60.			
CREDITS PRE-TRANSFER: 60					CREDITS POST-TRANSFER: 60		
* <b>A</b> = Completion of the Associate Degree satisfies this General Education Requirement. <b>U</b> = This course satisfies a Uniform Certificate of General Studies requirement. <b>P</b> = This course satisfies a Passport requirement.							

## TRANSFER GUIDANCE

### 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.

- 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](http://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:** After the first 15 credits completed at TransferVirginia.org
- **Admission Application:** By December 1 for spring admission and 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 to ensure you receive the maximum amount of aid at [www.studentaid.gov](http://www.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, and complete your first math and English courses in your first year. For help, see Transfer Steps and Resource Center ([www.TransferVirginia.org](http://www.TransferVirginia.org)).
- Connect with an advisor at your community college and Longwood University within your first year. Use the College Connect feature in the portal ([www.TransferVirginia.org](http://www.TransferVirginia.org)).
- Students interested in a minor should plan to take preliminary coursework as available.
- To complete all Longwood requirements in four semesters, careful planning will be necessary. CMSC 160 and CMSC 162 (VCCS CSC 201 and CSC 202) are typically freshmen-level courses at Longwood.

### 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.
- **Dual Enrollment – Completion of Associate Degree in HS:** 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](http://www.TransferVirginia.org)

### DID YOU KNOW THAT...

- Completing your associate's transfer 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 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](http://www.TransferVirginia.org).

### IS THIS DEGREE RIGHT FOR ME?

- Our curriculum has a heavy focus on systems programming and software development. Classes are taught in-person and we do not offer night classes.
- The bachelor of science degree requires additional mathematics courses, including calculus, and many students in this program will continue with additional math classes, which are required for certain more technical jobs, or for students interested in graduate school.
- The bachelor of arts degree requires additional humanities or language courses to complement their work in computer science. Students minoring in non-technical areas will often choose the bachelor of arts degree.
- Most of the software development in our courses will be in a Linux environment, and students will work on them using the Linux workstations of our advanced computing lab. Most students will want to have a reasonably powerful laptop; some will install Linux but many do not. If you will be buying a new laptop and plan to install Linux on it, a list of laptop recommendations is available at <https://www.cs.longwood.edu/Laptops.html>

### WHAT CAN I DO WITH THIS DEGREE?

Explore possible careers, salaries, and job outlook at [www.TransferVirginia.org](http://www.TransferVirginia.org)

### PROGRAM SUCCESSES & HIGHLIGHTS

- Longwood graduates work as software engineers, system administrators, I.T. specialists, at places like Capital One, SWIFT Inc., Innova Systems, and the Naval Surface Warfare Center.

### DO MORE WITH YOUR DEGREE!

All students in this program complete either an internship or directed study project. Active student organizations include a cybersecurity club, a chess team, a game development club, a chapter of the Association for Computing Machinery (ACM), and a math club.

Computer science pairs well with almost any other discipline as either a minor or a double major, and at a school like Longwood it's easy to match computer science with unrelated interests like History, Creative Writing, Chemistry, or Philosophy (as various recent alumni have done).

Students looking for a more conventional combination have enriched their experience by adding minors in Cybersecurity or Mathematics, and there are clear opportunities for connections with the newly established minors of Geographic Information Systems and Applied Statistics.

### OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- The zero-credit CMSC 283 and CMSC 483 are centered around an internship or directed study for the student.