

# University of Lynchburg - Bachelor of Science in Computer Science

## Associate Transfer Degree Plan in Computer Science

### COURSE REQUIREMENTS

Complete at VCCS				Complete at Lynchburg		
BACHELOR'S DEGREE REQUIREMENT	SATISFIED BY			BACHELOR'S DEGREE REQUIREMENT		
Course	Credits	CC Course	Notes	Course	Credits	Notes
No Transfer Credit	1-2	SDV 100 College Success Skills or 101 Orientation		CS 141	4	
ENGL 110	3	ENG 111 College Comp I		CS 142	4	
ENGL 123W	3	ENG 112 College Comp II	Transfers as ENGL 123	CS 241	4	
Fine Arts and Humanities Requirement	3	Any of the following from UCGS Art or Humanities  Arts: ART 100, CST 130, CST 151, MUS 121, MUS 226  Humanities: HUM 220, PHI 220	These two courses must come from two different disciplines.	CS 242	4	
Fine Arts and Humanities Requirement	3	Any UCGS Art or Humanities (choose from a category not taken above), or Lit Literature: ENG 245 or 246		MATH 231	3	
Fine Arts and Humanities Requirement	3	Any of the following from UCGS History: HIS 101, 102, 111, or 112	Transfers as HIST 103	Computer Science Core	9	Three courses from the following: CS 322 CS 350 CS 360 CS 370 CS 371
Social Science Literacy Requirement	3	Any of the following from UCGS Social & Behavioral Science: ECO 201, ECO 202, SOC 200, SOC 268		Computer Science Electives	12	Any courses CS 300+
Scientific Literacy Requirement	4	Any of the following from UCGS Natural Sciences: BIO 101 Gen Bio I, CHM 111 Gen Chem I, PHY 201 Gen Coll Phys I, PHY 241 Univ Phys I,		Computer Science Writing Enriched	3	Choose from the following: BIOL 205W CHEM 242W ENGL 207W ENGL 208W

		GOL 105 Physical Geology, GOL 106 Historical Geology, or GOL 110 Earth Systems				ENGL 223W MATH 260W MATH 350W PHIL 200W PHIL 204W
MATH 103	4	MTH 263 Calculus I	Also fulfills Quantitative Reasoning requirement	CS 451	3	
STAT 222 MATH 104	3-4	MTH 245 Statistics or MTH 264 Calculus II		CS 452	3	
COMM 101	3	CST 100 Public Speaking or CST 110 Human Communication		General Electives	11	
CS 131	3	CSC 221 Intro to Problem Solving and Programming	Students will learn two languages over the course of the CSC 221- 222-223 Sequence. Languages: C++, JAVA, Python			
Elective	4	CSC 222 Object-Oriented Programming				
Elective	4	CSC 223 Data Structures				
Elective	3	CSC 208 Discrete Structures or MTH 288 Discrete Mathematics				
Elective Elective MATH 211	3-4	CSC 205 Computer Organization, CSC 215 Computer Systems, or MTH 265 Calc III				
Elective Elective Elective Elective Elective Elective  MATH 211 MATH 307 MATH 102 MATH 102	7-10 (Select more courses as needed to reach credit total of 60)	Additional science from above plus CSC 205 Computer Organization, CSC 215 Computer Systems, CSC Fundamentals of Cyber Security (under dev), EGR 121 Foundations of Engineering, EGR 122 Engineering Design, EGR 270 Fund of Computer Engineering, World Languages, MTH 265 Calculus III, MTH 266 Linear Algebra, Prerequisite Courses: MTH 161/162 Precalc I/II, MTH 167 Precalc with Trig				
CREDITS PRE-TRANSFER: 60-62				CREDITS POST-TRANSFER: 60		

## TRANSFER GUIDANCE

### Guaranteed Admission Agreement: University of Lynchburg

By meeting the following criteria, you are guaranteed admission into the University of Lynchburg.

This agreement does not guarantee your enrollment in any specific major.

- Graduate from a transfer-oriented degree program at a Virginia community college
- Graduate with a cumulative GPA of 2.0 or higher
- Submit an official transcript showing completion of the associate degree

Please visit the [TransferVirginia.org](http://TransferVirginia.org) portal to find course requirements for different majors (Transfer Tools) and **Transfer Guides** that outline course requirements for specific majors. (Resource Center)

### IMPORTANT LINKS & DATES:

- **Transfer Information:** <https://www.lynchburg.edu/undergraduate-admission/for-applicants/transfer-and-access-adult-student-guide/>
- Apply by July 31 for Fall semester
- Apply by December 19 for Spring semester
- **Admission Application:** <https://www.lynchburg.edu/undergraduate-admission/for-applicants/how-to-apply/transfer-application-steps/>
- **Financial Aid:** <https://www.lynchburg.edu/undergraduate-admission/financial-aid/>
- **FAFSA - Free Application for Federal Student Aid:** Apply at [studentaid.gov](http://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](http://www.TransferVirginia.org)
- Connect with an advisor at your community college and University of Lynchburg within your first year. College Connect available in your account at [www.TransferVirginia.org](http://www.TransferVirginia.org)

### IS THIS DEGREE RIGHT FOR ME?

- The University of Lynchburg's computer science program is perfect for students who like computers, technology, and engineering. Our challenging and exciting curriculum prepares graduates for a variety of technical fields. You can take courses in subjects like machine learning, information security, distributed systems, database management, operating systems, game programming, web programming, artificial intelligence, networks, and programming languages.
- We have a great program that will give you the skills to be at the forefront of technology. You can work closely with your professors on research or résumé-building projects. Our graduates have gone on to lead at companies like Microsoft and Amazon Web Services.

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

- **Associate Transfer Degree Completion:** Fulfills the majority of DELL General Education courses. DELL 400W: Senior-Year Seminar is still required.
- **Dual Enrollment – Completion of Associate Degree in HS:** Lynchburg does not differentiate between an Associate degree earned through a Dual Enrollment program and one earned in attendance at a VCCS institution
- **Credit for Prior Learning:** AP, IB, CLEP, and DANTES are evaluated for credit
- **Catalog Year:** Catalog year is determined by the first semester attended at the University of Lynchburg

### IS THIS COLLEGE RIGHT FOR ME?

- University of Lynchburg (known as Lynchburg College until 2018) is a small, private university in Lynchburg, Virginia offering more than 100 academic programs including master's and doctoral level degrees.
- Lynchburg is a welcome and inclusive community open to all students seeking to be an active part of engaged learning, developing mentoring relationships with faculty, participating in student life and community service on and off campus in an effort to be responsible citizens now and in the future.
- Scholarships and financial aid are awarded to all students and are often equal to the cost of attending a public university.
- Recognized as one of forty colleges that change lives in the book "Colleges That Change Lives" which has brought national recognition to UL, we are also recognized in US News & World Report and Princeton Review.

Learn more about our college at [www.TransferVirginia.org](http://www.TransferVirginia.org)

### DID YOU KNOW THAT...

- Completing your Associate transfer degree satisfies the majority of your DELL 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 Lynchburg?
- Up to 76 credits are eligible for transfer at the University of Lynchburg? Priority will be given to major courses, minor courses, and general education courses covered from transfer credit.

### WHAT CAN I DO WITH THIS DEGREE?

Common careers include the following:

- Cloud computing engineer: \$103,087
- Data scientist: \$103,930
- Full-stack developer: \$99,106
- Information security analyst: \$103,590
- Machine learning engineer: \$111,141
- Mobile app designer: \$65,000
- Software quality assurance manager: \$114,270

- User interface designer: \$97,136

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

#### PROGRAM SUCCESSES & HIGHLIGHTS

Graduates of our program have earned master's degrees and doctorates at universities such as Carnegie Mellon, University of North Carolina at Chapel Hill, University of Virginia, and Virginia Tech. They've also gone on to some amazing careers. No kidding, one of our graduates is known as the "engineer who saved LinkedIn."

Let's highlight some of the jobs you can get in computer science, and the salaries you would expect.

- Chief technology officer and vice president of artificial intelligence, Microsoft
- Database analyst, Colonial Behavioral Health
- Principal engineer, Dell EMC
- Quality assurance engineer, Apple, Inc.
- Quality engineer, Vistaprint
- Software engineer, Meridium
- Software engineer, Video Gaming Technologies
- Vice president of technology, Amazon Web Services

#### WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

Any prospective student applying to the University of Lynchburg who meets the GAA criteria will automatically be accepted. Students who do not fall under the GAA agreement will still be accepted if their GPA is at least 2.0.

Learn more about applying at [www.TransferVirginia.org](http://www.TransferVirginia.org)

#### DO MORE WITH YOUR DEGREE!

- Computer science is a very rewarding field that can lead to many different careers. From video game design to software engineering, there are many options for people who like problem-solving and programming.

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

- There are no additional requirements., though an internship is highly encouraged.