

**BIOLOGICAL AND PHYSICAL SCIENCES TO COMPUTER ENGINEERING  
BACHELOR OF ARTS (B.A.) OR BACHELOR OF SCIENCE (B.S.) TO  
MASTER OF SCIENCE (M.S.)  
COMBINED PROGRAM**

*(Minimum of 150 credits required)*

The B.A. or B.S. degree is completed at the Wilkes Honors College (WHC), and students then receive their bachelor's degree from WHC. Students complete their master's degree work in [Computer Engineering](#) in the Department of Electrical Engineering and Computer Science in the College of Engineering and Computer Science and receive their master's degree from that college.

The Undergraduate/Graduate Coursework and Admissions requirements [detailed above](#) must be satisfied by students interested in this combined program. Students must also complete the prerequisite coursework for the master's degree while pursuing the bachelor's degree at WHC as listed with the [M.S. in Computer Engineering](#). This combined program provides an attractive way for students to continue their graduate work. The undergraduate program is completed first, and the entire combined program can be completed in approximately five years.

**Degree Requirements**

To be eligible for the combined B.A. or B.S. in Biological and Physical Sciences to M.S. in Computer Engineering degree program, students must fulfill the following requirements:

1. Completion of the requirements for the B.A. or B.S. in Biological and Physical Sciences at the WHC and any other requirements stipulated by the College and University; and
2. Completion of all requirements for the M.S. in Computer Engineering program in the Engineering and Computer Science Department with either the thesis or non-thesis option.

**M.S. Computer Engineering**

<b>Comp Engineering Prereqs</b>	<b>Prereqs</b>	<b>Credits</b>	<b>College taken at</b>
COP 3035C Intro to Programming in Python <b>or</b> COP 2000 Honors Foundations of Programming		3	COECS (online) or WHC
CEN 3062C Intro to Software Design	COP 3035C	3	COECS (online)
COP 3275C Systems Programming with C++	COP 3035C Coreq: CEN 3062C	3	COECS (online)
CDA 3203 Computer Logic Design		3	COECS (online)
CDA 4102 Computer Architecture	CDA 3203 and COP 3275C	3	COECS (online)
MAD 2104 Discrete Mathematics		3	WHC or CoS
MAP 2302 Differential Equations <b>or</b> MAP 3305 Engineering Mathematics	MAC 2312	3	WHC or CoS
COP 3410C Data Structures and Algorithm Analysis with Python <b>or</b> COP 3530C Data Structures and Algorithm Analysis	MAD 2104 and CEN 3062C COP 3275C and MAD 2104	3	COECS (online)
PHY 2049/L General Physics II/Lab	PHY 2048/L	5	WHC
EEL 3111 Circuits 1	PHY 2049, EGN 1002, MAC 2313, MAP 3305 (or MAP 2302)	3	COECS
EEE 3300 Electronics 1 or	EEL 3111	3	COECS
CDA 4210 Introduction to VLSI	CDA 3203 and EEE 3300		
STA 2023 Honors Intro Statistics <b>or</b> STA 4821 Stochastic Models for Computer Science	MAC 2312	3	WHC or COECS
MAC 2313 Honors Calculus III	MAC 2312	4	WHC