



# SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION

**Cluster of Study: Information Technology**

**Major: Programming and Software Development (Nationally Recognized)**

**CIP Code: 110201**

**Overview:**

Careers in programming and software development involve the design, development, implementation, and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages, and software development. People with expertise in programming and software development work with cutting-edge technologies to develop tomorrow's products for use by businesses and consumers.

<b>Required Courses for Major*</b> (Minimum of four credits required)	<b>Required Course Codes</b>	<b><u>Plus One or More of the Following:</u></b>
<b>Computer Programming 1*</b> <b>Computer Programming 2*</b>  OR  <b>Computer Programming with Java, Visual Basic, or C++ 1</b> <b>Computer Programming with Java, Visual Basic, or C++ 2</b>  OR  <b>Database Design and Programming with SQL</b> <b>Database Programming with PL/SQL</b>	5050 5051  OR  5052, 5054, 5056  5053, 5055, 5057  OR  5324  5326	Advanced Animation Advanced Cyber Security Computer Forensics Cyber Security Fundamentals Entrepreneurship Exploring Computer Science Foundations of Animation Game Design and Development GIS Technology 1 GIS Technology 2 Information Technology Foundations Information Technology Fundamentals Integrated Business Applications 1** Integrated Business Applications 2** Java Fundamentals and Java Programming Professional and Leadership Development SAS Programming 1 SAS Programming 2 Web Page Design and Development 1 Web Page Design and Development 2 Information Technology Work-Based Credit

**\*\* Course will not be included in this major effective July 2015.**

