GENERAL STUDIES, COMPUTER SCIENCE PATHWAY

Associate of Science

The Computer Science track at Dalton State allows students to grasp the fundamental concepts of computers and how they affect the world around us. Understanding the many characteristics of computing has become a necessary skill. Our two-year program develops a strong foundation of knowledge and skills necessary to succeed in computer science or to pursue a higher degree. The program incorporates practical and theoretical approaches to key aspects of computer science such as programming languages, operating systems, data structures, and software engineering. These courses, along with the math and problem-solving skills, represent the foundation to meet current and future industry needs.

Transfers toward the Bachelor of Science in Computer Science.

Program Course Requirements

Click here to view Core IMPACTS General Education Curriculum requirements (http://catalog.daltonstate.edu/programs/coreimpacts/).

Program Advice (can share with CORE curriculum):

MATH 1113	Precalculus Mathematics (Required)	3
MATH 2253	Calculus and Analytic Geom I (Required)	4
Lab Science Sequence Required:		8
BIOL 1107K & BIOL 1108K	Principles of Biology I and Principles of Biology II (Option 1)	
CHEM 1211K & CHEM 1212K	Principles of Chemistry I and Principles of Chemistry II (Option 2)	
PHYS 1111K & PHYS 1112K	Introductory Physics I and Introductory Physics II (Option 3)	
PHYS 2211K & 2211K	Principles of Physics I and Principles of Physics I (Option 4)	
GEOL 1121K	Principles of Geology (Option 5 - choose 2 courses)	
or GEOL 1122K	Historical Geology	
or GEOL 1131K	Geology & the Environment	

 Click here to view Core IMPACTS General Education Curriculum requirements (http://catalog.daltonstate.edu/programs/coreimpacts/).

Core IMPACTS General Education Curriculum requirements	**42**
NOTE: Core IMPACTS courses can also satisfy requirements in your Program of Study. Please review the requirements for your major to prevent taking extra courses. The USG Core IMPACTS curriculum is designed to ensure that students acquire essential knowledge in foundational academic areas and develop career-ready competencies. There are seven Core IMPACTS areas. Students at all USG institutions must meet the Core IMPACTS requirements in all specified areas.	

Field of Study: Major Related

CMPS 1301	Principles of Programming I	3
CMPS 1302	Principles of Programming II	3
CMPS 2720	Data Structures	3
MATH 2254	Calculus and Analytic Geom II	4
Two of the following electives (one hour from MATH 2253 will apply here):		5-6
CMPS 2313	Intro to Software Engineering	
MATH 1401	Elementary Statistics	
MATH 2255	Calculus and Analytic Geom III	
MATH 2256	Introduction to Linear Algebra	
MATH 2602	Linear & Discrete Mathematics	
Total Hours		**60-62**