Bachelor of Science

Computer and Information Science

College of Arts and Sciences

Computer and information science (CIS) has two faces: technological (practical) and philosophical (intellectual). The practical focus is on solving problems with the aid of computers in order to "turn dreams into reality" in support of improved human health, happiness, safety, and productivity. The intellectual focus is on the study of a variety of systems and languages and their use in the design and construction of precise and understandable artifacts of all kinds. Fundamentals studied in the CIS curriculum include algorithms and data structures, programming languages, computer architecture, computer graphics, operating systems, software engineering, systems analysis, database and information retrieval systems, artificial intelligence and robotics, and human-computer interfaces.[i]

Career Areas/Job Titles:

Management and Industry
Project Manager
Consultant
Entrepreneur
Lawyer
Communication, Media, and Entertainment
Technical Writer
Computer Animator

Game Developer
Science and Technology
Systems Operator
Systems Developer
Systems Analyst
Software Developer
Database Developer
Network Administrator
Data Analyst

Web Developer
Programmer
Technical Support Specialist
Education
K-12 Teacher
Professor
Librarian

*Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.

Transferable Skills:

Artistic Design
Computer Programming
Computer Troubleshooting
Mathematic Skills
Technical Writing
Teamwork
Conceptualization

Creativity/Imagination
Defining Needs
Adaptability/Flexibility
Attention to Detail
Administrative Skills
Organization Skills
Prioritizing Tasks

Creating Innovative Solutions
Quantitative Reasoning
Data Analysis
Strategic Planning
Analytical/Critical Thinking
Problem Solving

*This is not an extensive list of transferable skills. See larger list of skills you might develop here:
http://ccss.osu.edu

Professional Links:
Association for Computing Machinery: http://www.acm.org/
Institute of Electrical and Electronics Engineers: http://www.ieee.org/index.html
Computing Research Association: http://www.cra.org/
Ohio State Institute for Electrical and Electronic Engineers: http://sites.ieee.org/sb-osu/

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