

What Can I Do With This **Ohio State** Major?

Bachelor of Science

Computer Science & Engineering

College of Engineering

Computer science and engineering (CSE) 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, and safety. 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 CSE 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 human-computer interfaces.¹

Career Areas/Job Titles:

Management and Industry

Consultant
Entrepreneur
Project Manager
Lawyer

Communication, Media, and Entertainment

Technical Writer
Computer Animator
Game Developer

Science and Technology

Software Engineer
Systems Operator
Programmer
Researcher
Systems Analyst
Data Analyst
Systems Maintenance Manager
Systems Developer
IT Administrator

Network Administrator
Software Developer
Web Developer
Database Developer

Education

K-12 Teacher
Professor
Librarian

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

Transferable Skills:

Computer Programming
Computer Troubleshooting
Engineering Fundamentals
Mathematic Skills
Listening Skills
Written Communication Skills
Technical Writing

Teamwork
Conceptualization
Creativity/Imagination
Defining Needs
Attention to Detail
Administrative Skills
Organization Skills

Adaptability/Flexibility
Prioritizing Tasks
Strategic Planning
Creating Innovative Solutions
Quantitative Reasoning
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/>

Computer Science Teachers Association: <http://www.csta.acm.org/>

Institute for Electrical and Electronics Engineers: <http://www.ieee.org/index.html>

Computing Research Association: <http://www.cra.org/>