

Computer Careers

Advances in science, technology, the social sciences, business, industry, and government are all dependent upon precise analysis and the extraction of information from large quantities of data. At Clark College, students can master the fundamental skills needed in computer technology to achieve success in a wide range of career fields.

Clark College also offers academic transfer courses in computer science fields, computer literacy and applications classes, and technical training certificate programs. College faculty work closely with their counterparts at the university level and with representatives from business and the high technology industry to ensure that coursework and training prepares Clark graduates for success in advanced college studies and on the job.



College Abilities

Clark College has identified six college-wide abilities that help students apply what they learn. The core abilities are taught across the curriculum and students continually practice and improve their skills in the six areas.

Communication

The ability to understand and deliver written, spoken and visual communication clearly and accurately.

Critical Thinking/Problem Solving

The ability to formulate, evaluate and synthesize facts, data, ideas, assumptions, values and points of view.

Effective Citizenship

The ability to identify community issues; evaluate and respect various opinions and values; and articulate one's own perspective.

Global/Multicultural Perspectives

The ability to identify, analyze and demonstrate how culture shapes world perceptions, values and behaviors.

Lifelong Learning

The ability to set and revise goals, access resources and assume responsibility for one's own learning.

Information/Technology

The ability to identify resources; retrieve and manage data; interpret, evaluate and use information; and adapt to changing technologies.

Clark College does not discriminate on the basis of race, color, national origin, sex, disability, age, religion, sexual orientation, gender identity, gender expression, creed, disabled veteran status, marital status or Vietnam-era veteran status in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies:

Director for Equity and Diversity
Baird Administration Building
(360) 992-2355
(360) 992-2835 (TTY)

Computer Technology

Software Solutions Development Specialist



- Cooperative Work Experience with local companies
- Associate in Applied Science Degree
- Two-year program
- Certificates of Achievement
- Certificate of Proficiency



Software Solutions Development Specialist

This degree program is designed for students who want to work in software solutions development, application integration, application customization and software qualification in a Microsoft environment. The Software Solutions Development Specialists will participate in user requirements analysis. The specialists will also design, develop, qualify and support software solutions to meet the user requirements.

Students interested in the Software Solutions Development Specialist Program who have not completed the prerequisite courses must obtain advising information from the Computer Technology Advisor in General Advising. Upon completion of these introductory courses, students who wish to continue in the program will be assigned a department advisor.

Students must complete all major area courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Software Solutions Development Database Development

Certificate of Achievement

Major Area Requirements

CTEC	121	Intro to Programming & Problem Solving	5 credits
CTEC	123	Introduction to Visual Basic	5 credits
CTEC	181	Intro to Database Design Using Access	5 credits
CTEC	224	Intermediate Visual Basic	5 credits
CTEC	281	Database Implementation Using Access	5 credits
CTEC	282	Programming with SQL	5 credits
Total Credits Required			30 credits

Software Solutions Development Web Programming

Certificate of Achievement

Major Area Requirements

CTEC	121	Intro to Programming & Problem Solving	5 credits
CTEC	122	HTML Fundamentals	3 credits
CTEC	126	Introduction to Web Scripting	5 credits
CTEC	127	Introduction to PHP	4 credits
CTEC	140	Introduction to UNIX	5 credits
CTEC	181	Intro to Database Design Using Access	5 credits
CTEC	199 or 290	Cooperative Work Experience Special Projects	5 credits 5 credits
CTEC	227	Advanced PHP	4 credits
CTEC	241	Scripting with Perl	5 credits
HDEV	200	Professional Development	2 credits
Total Credits Required			43 credits

Software Solutions Development Specialist

Certificate of Proficiency

General Education Requirements

CMST	201 or 211	Small Group Communication Interpersonal Communication	5 credits 5 credits
ENGL	101 or 111	English Composition Technical Report Writing I	5 credits 5 credits
MATH	095 or 111	Elementary Algebra College Algebra	5 credits 5 credits

Major Area Requirements

BUS	231	Principles of Accounting	5 credits
CTEC	121	Intro to Programming & Problem Solving	5 credits
CTEC	122	HTML Fundamentals	3 credits
CTEC	123 or 124	Introduction to Visual Basic Visual Basic .Net I	5 credits 5 credits
CTEC	127	Introduction to PHP	4 credits
CTEC	150	Introduction to Local Area Networks	5 credits
CTEC	181	Intro to Database Design Using Access	5 credits
CTEC	199 or 290	Cooperative Work Experience Special Projects	5 credits 5 credits

CTEC	224	Intermediate Visual Basic	5 credits
HDEV	200	Professional Development	2 credits
PHIL	170	Introduction to Modern Logic	5 credits
Total Credits Required			59 credits

(including General Education Requirements)

Refer to the Degree & Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Software Solutions Development Specialist

Associate in Applied Science

In addition to completing all courses for the Certificate of Proficiency, students must also complete the following additional General Education and Major Area Requirements and all other requirements as prescribed in the Degree & Certificate Requirements section of the Clark College Catalog.

General Education Requirements

PHIL	170	Introduction to Modern Logic	5 credits
PHYS	090	Applied Physics	5 credits
PSYC	101	General Psychology	5 credits
		Health Requirement & PE Activity	3 credits

Major Area Requirements

CSE	121	Intro to C (formerly CTEC 125)	5 credits
CSE	220 or 221	Intro to Java (formerly CTEC 220) Intro to C++ (formerly CTEC 221)	5 credits 5 credits
CTEC	140	Introduction to UNIX	5 credits
CTEC	282	Programming with SQL	5 credits
ECON	101	Introduction to Economics	3 credits
Total Credits Required			97 credits

(including General Education Requirements)

Refer to the Degree Requirements section in the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

www.clark.edu

For more information, see the Clark College Catalog or contact the CTEC Advisor at (360) 992-2327
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