

Transfer Information

The Associate in Science—Track 2 transfer preparation degree is designed for students planning to transfer to a senior institution to pursue a bachelor degree program in engineering, computer science, physics or atmospheric science. The degree program focuses on coursework specific to the intended major area of study at the senior institution.

To earn an associate of science transfer degree the student must:

- Complete a minimum of ninety (90) college-level credits in specified curriculum.
- Maintain a minimum cumulative college-level GPA of 2.00 or higher.
- Meet academic residency requirements.
- Submit a program completion application by the appropriate deadline.

Lower Division Requirements

General Education

Communication Skills	5 credits
Quantitative Skills	15-16 credits
Health & Physical Education	3 credits
Humanities & Social Sciences	15 credits

Computer Science

Additional computer requirements	5 credits
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Science Sequence

Other major-specific science sequence requirements	20-28 credits
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Electives

Other major-specific requirements	19-27 credits
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See Clark College Catalog for specific course and degree criteria.

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, political affiliation, creed, disabled veteran status, marital status, honorably discharged veteran or Vietnam-era veteran status in its programs and activities.

Revised 12/08/2008

Sciences

Computer Science



■ Associate in Science Degree - Transfer



Computer Science

Computers are an integral part of most human activities and professions. Therefore, a wide variety of career opportunities are available to the computer science professionals who are commonly referred to as software engineers.

Software engineers are responsible for analyzing requirements, planning, developing high level design, writing and testing the program that delivers the expected results. Software engineers may be involved with support and maintenance of the solutions.

Software engineers are employed in all industries such as manufacturing, finance, service, retail, gaming and others. Typically, software engineers work with other professionals in order to develop solutions that meet business and customer requirements.

Computer science specialities include:

- Artificial intelligence
- Computer vision
- Database
- Embedded systems
- Graphics and animation
- Networking
- Operating systems
- Program languages and compilers
- Robotics
- Gaming design and development



Computer Science

Associate in Science Transfer Degree (AST-2)

This is a suggested program for the first two years of a four-year Computer Science program. These lower division course requirements will vary depending on the math and English placement at Clark College, and the requirements of the four-year institution to which you transfer. It is critical that you work with an Engineering advisor to ensure your program will give you the maximum benefit when you transfer.

General Requirements

CSE 121	Introduction to C	5 credits
ENGL& 101	English Composition I	5 credits
MATH& 151	Calculus I	5 credits
MATH& 152	Calculus II	5 credits
MATH& 153	Calculus III	5 credits
PHYS& 221	Engineering Physics I	5 credits
PHYS& 222	Engineering Physics II	5 credits
PHYS& 223	Engineering Physics III	5 credits
	Science Requirement	10 credits
	Health/PE Requirement	3 credits
	Humanities Requirement	5 credits
	Social Science Requirement	5 credits
	Additional Humanities and/or Social Science Requirement	5 credits

See your department advisor for specific coursework required.

Computer Science Electives Requirements

CS& 131	Computer Science I C++	5 credits
CS& 141	Computer Science I Java	5 credits
CSE 222	Introduction to Data Structure	5 credits
CSE 223	Data Structures and Object-Oriented Programming	5 credits
CSE 224	Programming Tools	4 credits
ENGR& 204	Electrical Circuits	5 credits
ENGR 120	Intro to Electrical/Computer Engineering	5 credits
ENGR 250	Digital Logic Design	5 credits
ENGR 270	Digital Systems and Microprocessors	5 credits
MATH 205	Discrete Math	5 credits
MATH 215	Linear Algebra	5 credits
MATH& 254	Calculus IV	5 credits



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For more information, see the Clark College Catalog or contact the General Advising Office at (360) 992-2345
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