Program Overview
Engineering, Math and Physical Sciences division, Room T302, (847) 543-2044

TRANSFER DEGREE PROGRAM
COMPUTER SCIENCE
(Associate in Science) Plab 11AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students should meet with a counselor or advisor to determine courses at CLC which will also meet the transfer requirements.

To complete any transfer degree, students should select from the general education requirements outlined on page 50. All course prerequisites should be met. Additionally, students are required to select one course from the International/Multicultural list on Page 51 of the 2015-16 catalog to meet graduation requirements.

First Semester ........................................... 15
MCS 141 Computer Science I.................. 4
MTH 144 Precalculus .............................. 5
ENG 121 English Composition I............ 3
HUM 127 Critical Thinking or
PHI 122 Logic ................................. 3

Second Semester ..................................... 14
MCS 142 Computer Science II............. 3
MTH 145 Calculus and Analytic Geometry I .................. 5
ENG 122 English Composition II or
ENG 126 Advanced Composition: Scientific and Technical Communications .............. 3
Social & Behavioral Sciences Elective ...... 3

Third Semester ........................................... 15
MCS 240 Computer Organization and Architecture .................. 3
MTH 146 Calculus and Analytic Geometry II .................. 4
PHY 123 Physics for Science and Engineering I ............ 5
CMM 121 Fundamentals of Speech........ 3

Fourth Semester ...................................... 16
BIO 120 Environmental Biology or
BIO 141 Concepts in Biology or
BIO 161 General Biology I ............... 4
MTH 244 Discrete Mathematics .............. 3
Fine Arts Elective ............................... 3
Humanities or Fine Arts Elective ...... 3
Social and Behavioral Sciences Elective ... 3

Getting Started
If you satisfy the Program Entrance Requirements, visit www.clcillinois.edu/admission for steps on how to register.

What it’s About
- Conduct research into fundamental computer and information science as theorists, designers or inventors
- Solve or develop solutions to problems in the field of computer hardware and software

Salary and Job Outlook
For the latest information, visit www.mynextmove.org or the Bureau of Labor Statistics online at www.bls.gov. Gainful employment data is available at www.clcillinois.edu/gainfulemployment.

Transfer Schools
Students have transferred to the following schools:
- DePaul University
- Northern IL University
- Northeastern IL University
- University of IL - Chicago
- University of IL - Urbana Champaign
- University of IL - Springfield
- University of Wisconsin Madison
- University of Wisconsin Parkside
Computer Science Courses

Computer Science Concepts (MCS 121)
The course previews the fundamental concepts and applications of computer science through a survey of topics including: algorithms and problem solving, programming, computer organization, networking, databases, artificial intelligence and graphics.

Computer Programming for Engineers and Scientists (MCS 140)
This is a course in algorithm and problem solving using the Java programming language. It is intended for engineers to program in the context of scientific applications.

Computer Science I (MCS 141)
The first in a sequence of courses for majors in computer science, this course introduces a disciplined approach to problem-solving, algorithm development and data abstraction. The course covers branching, repetition and sequence control structures; object-oriented program design, testing and documentation using good programming style; and arrays, objects and files.

Computer Science II (MCS 142)
Using the Java computer language, this course presents such topics as string processing, internal searching and sorting, recursion; and data structures such as stacks, queues, linked lists, trees and graphs.

Computer Organization and Architecture (MCS 240)
Topics include data representation, Boolean algebra and digital logic, assembly language, memory and I/O storage systems.

To Learn More
For a complete list of courses and course descriptions, visit www.clcillinois.edu/programs/mcs.

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