

Sample Education Plan Associate in Science (AS) Area of Focus: Computer Science



Please note that the AS degree is not awarded in a specific major or focus area.

This is a SAMPLE plan to help guide you toward courses relevant to your interests while you are deciding on a transfer institution. Suggested courses are based on requirements of several four-year institutions and the Illinois Articulation Initiative (IAI) Computer Science Panel. Please note that requirements vary among four-year colleges and universities. It is important to check early with your transfer school and academic advisor to ensure you are taking appropriate courses and meeting all requirements. You will find transfer guides for specific universities on MCC's website:

www.mchenry.edu/transfer.

AS Degree Requirements: Area of Focus—Computer Science

Students are encouraged to complete an AS degree prior to transfer. A minimum of 60 credits is required for transfer as a junior into a bachelor's degree computer science program.

Please refer to MCC's AS degree planning sheet in the current academic catalog for specific degree requirements and course options.

Suggested Courses

GENERAL EDUCATION CORE CURRICULUM	CREDITS	OTHER COURSE REQUIREMENTS	CREDITS
Communications		Diversity and Multicultural Studies	
^ENG 151 Composition I	3	One 3-credit hour course is required. Courses that fulfill this requirement may be used to fulfill credits in Humanities/Fine Arts, Social/Behavioral Sciences, or Electives. See current catalog for complete list of Diversity & Multicultural Studies course options and how they apply toward degree requirements.	
^ENG 152 Composition II	3		
SPE 151 Introduction to Speech	3		
Humanities and Fine Arts		Electives (approximately 17–18 credits, will depend on credit value of your course selections)	
IAI Fine Arts	3	^CSC 121 + 122 Computer Science I & II	8
IAI Humanities	3	^MAT 245 Calculus w/Analytic Geometry II	5
Social and Behavioral Sciences		^MAT 255 Calculus 2/Analytic Geometry III	4
IAI Social & Behavioral Science	3	Foreign Language	0–16
IAI Social & Behavioral Science	3	Examples of other courses that may satisfy requirements for your transfer school:	
Physical and Life Sciences		^MAT 253	
IAI Physical Science (^PHY 291 Principles of Physics I Recommended)	4		
IAI Physical Science (^PHY 292 Principles of Physics II Recommended)	4		
IAI Life Science	4		
Mathematics		Total Credits Required for AS Degree	60
(Math selections depend on your transfer school)		Many 4-year schools will accept a maximum of 60–64 transfer credits.	
^MAT 165 College Algebra & Trigonometry	5		
^MAT 175 Calculus for Business/Social Science or Calculus w/Analytic Geometry I	5	^Course has prerequisite(s)—Please reference the current academic catalog for prerequisites.	

NOTE:

- Mathematics and science course selection will depend on your transfer school. Requirements vary among four-year schools.
- An entire sequence should be taken at the same school (e.g. MAT 175, MAT 245, and MAT 255). Content may vary between institutions; completing sequence at a single institution is the best way to assure that neither credit nor content is lost in transfer.
- Your transfer school may require at least 1 year of foreign language. High school foreign language may or may not count. It is always recommended that the foreign language requirement be completed prior to transfer.
- The AS degree does not include the entire IAI General Education Core Curriculum (GECC) package. Meet with an MCC academic advisor to learn more about the IAI GECC.

For more information:
advising@mchenry.edu or (815) 479-7565
www.mchenry.edu/advising



Transfer Notes

Bachelor's degree programs in computer science encompass two distinct emphases: an information systems (or business) emphasis and a technical emphasis. While either emphasis will prepare a student for a computing career, there are important differences in the context of the work to be performed, the types of problems to be solved, and the types of systems to be designed and managed. For both emphases, starting positions include such titles as programmer, programmer-analyst, and network analyst.

This sample education plan is for the technical emphasis, which focuses on algorithms, theoretical foundations of computer science, and development of software. The technical emphasis requires a stronger math and science background. The Information Systems (or business) emphasis focuses on the use of computer technology and information management methods to solve business problems. Please refer to the computer systems technology sample plan for a curriculum example.

Admission and specific course requirements for baccalaureate computer science programs vary among four-year institutions. Some may require foreign language.

Transfer Schools

Following is a sample of Illinois public and private four-year institutions that offer programs in computer science.

- Aurora University
- Benedictine University
- Bradley University
- Chicago State University
- Concordia University
- DePaul University
- Dominican University
- Eastern Illinois University
- Elmhurst College
- Illinois Institute of Technology
- Illinois State University
- Illinois Wesleyan College
- Knox College
- Lake Forest College
- Lewis University
- Loyola University
- Millikin University
- Monmouth College
- North Central College
- Northeastern Illinois University
- Northern Illinois University
- Northwestern University
- Olivet Nazarene University
- Rockford University
- Roosevelt University
- Southern Illinois University at Carbondale
- Southern Illinois University at Edwardsville
- University of Illinois at Chicago
- University of Illinois Springfield
- University of Illinois at Urbana/Champaign
- Western Illinois University
- Wheaton College

Transfer Resources

www.itransfer.org—iTransfer is a portal for transfer assistance in the state of Illinois. Find information about the Illinois Articulation Initiative and MyCreditsTransfer (Transferology—a nationwide transfer tool).

www.mchenry.edu/transfer—Find transfer guides, course equivalencies, partnership agreements, and other transfer resources.