



**COMPUTER SCIENCE**  
**Option 1 - Traditional Track**  
**Toward a Bachelor of Science Degree**

Transfer Curriculum 000AS0087 Associate in Science Minimum Hrs. 64 Major Code: 1.1 110701B
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**FIRST YEAR – FALL SEMESTER**

Dept. No.		Hrs.	Gr.
CPS 202	Discrete Structures <sup>1</sup>	3	___
ENG 101	English Composition I <sup>2</sup>	3	___
MAT 131	Calculus I	5	___
	Fine Arts Elective <sup>3</sup>	3	___
		<u>14</u>	___

**SECOND YEAR – FALL SEMESTER**

Dept. No.		Hrs.	Gr.
CPS 215	Computer Science II <sup>5</sup>	4	___
PHY 205	University Physics I <sup>6</sup>	5	___
SPE 115	Speech	3	___
	Biological Science Elective <sup>6</sup>	3	___
	Humanities Elective <sup>3</sup>	3	___
		<u>18</u>	___

**FIRST YEAR – SPRING SEMESTER**

Dept. No.		Hrs.	Gr.
CPS 206	Computer Science I <sup>4</sup>	4	___
ENG 102	English Composition II <sup>2</sup>	3	___
MAT 201	Calculus II	5	___
PHL 121	Introduction to Logic	3	___
		<u>15</u>	___

**SECOND YEAR – SPRING SEMESTER**

Dept. No.		Hrs.	Gr.
MAT 221	Introduction to Linear Algebra <sup>7</sup>	3	___
PHY 206	University Physics II <sup>6</sup>	5	___
PSC 131	American Government OR HIS 201 United States History I OR HIS 202 United States History II	3	___
PSY 132	General Psychology Social Science Elective <sup>3</sup>	3	___
		<u>3</u>	___
		17	___

<sup>1</sup> This course is offered Fall Semester in odd numbered years.

<sup>2</sup> Requires a grade of "C" or higher.

<sup>3</sup> Students must choose at least one course from a listing of Humanities, Fine Arts or Social Science courses that will also meet the Integrative Studies requirement required for the Associate in Science degree.

<sup>4</sup> A prior programming course is assumed (CPS 176 or equivalent).

<sup>5</sup> This course is offered Fall semester in even numbered years.

<sup>6</sup> Students should consult with an academic advisor and/or intended transfer institution to determine the appropriate lab science course(s) needed for the Computer Science degree. (SIUC College of Science, including Computer Science majors, requires six semester credits in biological sciences and six semester credits in physical science and only certain courses can be used to meet these requirements. PHY 205/206 (PHYS 205 A,B/255 A,B) are approved as physical science courses. BIO 101, 110, 120, 225 are approved biological science courses.)

<sup>7</sup> This course is offered Spring Semester in even numbered years.

This curriculum guide outlines a recommended or suggested first two years for individuals interested in pursuing a baccalaureate degree in this discipline or possibly one closely related. The General Education component in this recommended guide meets the guidelines established by the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC). With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-V (General Education Component; GECC-IAI) of the curriculum guide (see the Associate in Science general degree requirements worksheet in the John A. Logan College Catalog).

It is recommended that you consult the catalog of the college or university you are considering as a transfer institution to complete a baccalaureate degree. It is also recommended that you consult with an academic advisor at that college or university.

*John A. Logan College reserves the right to modify this curriculum guide as needed.  
Please verify with your academic advisor the accuracy and time lines of this document.*

**Effective Date: Spring 2012**

**Career Opportunities:** Computer programmer, systems programmer, programmer-analyst, business programmer, programmer consultant, documentation specialist, software consultant, systems consultant, process control programmer, computer applications specialist, systems engineer, software engineer, data processing analyst, computer analyst, systems analyst, computer sales representative, procedures analyst, technical writer, computer science instructor.

**Major Employers:** Wholesale and retail businesses, banking and insurance firms, government agencies, electronic and other manufacturers, data processing services firm, transportation and public utilities, research organizations, schools, colleges and universities.