



MATHEMATICS
Toward a Bachelor of Science Degree

Transfer Curriculum 000AS0087 Associate in Science Minimum Hrs. 64 Major Code: 1.1 270101B

FIRST YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
BIO 101	Biological Science for Science Majors I	4	___
ENG 101	English Composition I ¹	3	___
MAT 131	Calculus I	5	___
PSC 131	American Government OR	3	___
	HIS 201 United States History I OR	15	___
	HIS 202 United States History II		

SECOND YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
MAT 202	Calculus III	3	___
PHY 155	College Physics I OR	5	___
	PHY 205 University Physics I ³		
PSY 132	General Psychology	3	___
SPE 115	Speech	3	___
	Fine Arts Elective	3	___
		17	___

FIRST YEAR – SPRING SEMESTER

Dept. No.		Hrs.	Gr.
	Computer Programming ²	4	___
ENG 102	English Composition II ¹	3	___
MAT 201	Calculus II	5	___
PHL 121	Introduction to Logic	3	___
		15	___

SECOND YEAR – SPRING SEMESTER

Dept. No.		Hrs.	Gr.
HIS 213	Eastern Civilizations OR	3	___
	LIT 280 Introduction to Literature OR		
	LIT 284 Ethnic Literature in America		
MAT 205	Differential Equations ⁴	3	___
MAT 221	Introduction to Linear Algebra ⁵	3	___
PHY 156	College Physics II OR	5	___
	PHY 206 University Physics II ³		
	Social Science Elective	3	___
		17	___

¹ Requires a grade of "C" or higher.

² Students should consult with an advisor and/or appropriate transfer institution catalog to determine if Introduction to Scientific Programming (CPS 203) or Computer Science I (CPS 206) is needed for their program.

³ Students should consult with an advisor and/or appropriate transfer institution catalog to determine if College Physics (PHY 155/PHY156) or University Physics (PHY 205/PHY 206) is needed for their program.

⁴ This course is offered in the Spring Semester only.

⁵ This course is ordinarily offered in the 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: Fall 2008

Career Opportunities: Actuary, mathematician, mathematics teacher, computer applications engineer, systems analyst, operations research analyst, statistician, mathematical technician, financial analyst, securities, bond advisor, weight analyst, information systems programmer, econometrician, market research analyst, budget management analyst, computing analyst, research mathematician, applied statistician, biostatistician, data reduction technician, business programmer, investment analyst, commodity analyst, insurance analyst, engineering and scientific programmer, financial analyst.

Major Employers: Colleges and universities, schools, aerospace, communications, and machinery industries; pharmaceutical and electrical equipment industries; public utilities; finance and insurance companies; management and consulting services; government agencies, including U. S. Departments of Defense, Labor, Commerce, Transportation and Treasury.