

# MATHEMATICS



Toward a Bachelor of Arts or  
A Bachelor of Science Degree

Minimum 62 hours

## Transfer Curriculum • Associate in Science Degree • Minimum 2.0 OGPA • Major Code: DAS

This curriculum is designed for transfer to four year institutions for this major. Consult the website of the four year institution where you plan to transfer, regarding specific course needs, requirements and deadlines.

### FIRST YEAR

Fall Semester		Credit Hrs
<b>ENG 121</b>	Rhetoric & Composition I	3
<b>COM 121</b>	Principles of Speaking	3
<b>MATH 161</b>	Pre-Calculus	4
<b>BIOL 121</b>	Intro to Biology	4
<b>SOCIAL AND BEHAVIORAL SCIENCES (See Below)</b>		3
Total Hours		17

Spring Semester		Credit Hrs
<b>ENG 122</b>	Rhetoric & Composition II	3
<b>MATH 162</b>	Calculus I	5
<b>HUMANITIES AND FINE ARTS (See Below)</b>		3
<b>HUMANITIES AND FINE ARTS (See Below)</b>		3
<b>SOCIAL AND BEHAVIORAL SCIENCES (See Below)</b>		3
Total Hours		17

### SECOND YEAR

Fall Semester		Credit Hrs
<b>PHYS 221</b>	General Physics I	5
<b>MATH 221</b>	Calculus II	5
<b>MATH 165</b>	Scientific Programming	3
<b>SPAN 121</b>	Elementary Spanish I	4
Total Hours		17

Spring Semester		Credit Hrs
<b>PHYS 222</b>	General Physics II	5
<b>MATH 222</b>	Calculus III	5
<b>MATH 225</b>	Differential Equations	3
<b>SPAN 122</b>	Elementary Spanish II	4
Total Hours		17

The bolded classes on this curriculum guide indicate the minimum a student must complete in order to receive an Associate degree. See advisor for specific transfer information.

It is suggested that students take summer classes to lessen the course loads during the fall and spring semesters.

If interested in Education, please see the **SECONDARY EDUCATION** transfer Curriculum Guide for courses required for Illinois Teacher Certification.

#### **HUMANITIES AND FINE ARTS: 6 semester hours. At least one course must be taken from each area.**

Area 1	___ART 121-3 (F2 900) Art Appreciation	___MUS 121-3 (F1 900) Music Appreciation	___COM 128-3 (F2 905) Film Appreciation
	___ART 222-3 (F2 901) Prehistory to Medieval Art	___MUS 126-3 (F1 904) Intro to American Music	___THTR 121-3 (F1 907) Introduction to Theater
	___ART 223-3 (F2 902) Renaissance to Contemporary Art		
Area 2	___ENG 243-3 (H3 902) Introduction to Drama	___ENG 261-3 (H3 914) American Literature I	___PHIL 121-3 (H4 900) Intro to Philosophy
	___ENG 245-3 (H3 906) World Literature	___ENG 262-3 (H3 915) American Literature II	___PHIL 122-3 (H4 906) Fundamentals of Logic
	___ENG 246-3 (H3 907) Modern Literature		___PHIL 221-3 (H4 904) Fundamentals of Ethics
			___PHIL 224-3 (H5 904N) Comparative Religions

#### **SOCIAL & BEHAVIORAL SCIENCES: 6 semester hours. Courses must be taken from two different areas – one course must be selected from Area 1**

Area 1	___ECE 141-3 (S6 903) Child Development	___PSYC 121-3 (S6 900) Intro Psychology	___SOC 121-3 (S7 900) Intro Sociology
	___HIST 161-3 (S2 923D) Black American History	___PSYC 221-3 (S6 903) Child Psychology	___SOC 221-3 (S7 902) The Family in Society
Area 2	___HIST 121-3 (S2 902) Western Civilization to 1648	___HIST 141-3 (S2 901N) Latin American History	___HIST 241-3 (S2 900N) American History I
	___HIST 122-3 (S2 903) Western Civilization from 1648		___HIST 242-3 (S2 901N) American History II
Area 3	___ECON 121-3 (S3 901) Macroeconomics	___GOVT 121-3 (S5 900) American Government	
	___ECON 122-3 (S3 902) Microeconomics	___GOVT 226-3 (S5 904N) Intro International Relations	

#### **Career Opportunities:**

Actuary, Mathematician, Mathematics Teacher, Computer Applications Engineer, Applied Mathematician, Computational Engineer, Systems Analyst, Operations Research Analyst, Statistician, Mathematical Technician, Financial Analyst, Securities Analyst, 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:**

Aerospace, Communications, Machinery, 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.