



Transfer Guide Mathematics

Students who have completed the IAI (Illinois Articulation Initiative) or A.A. or A.S requirements have satisfied the general education requirements for USF except for Philosophy and Theology. A Maximum of 70 semester hours transfers to USF.

University of St. Francis	Joliet Junior College	
Literacy		
College Writing I College Writing II Speech Communication	ENG 101 ENG 102 SPCH 101	Rhetoric I Rhetoric II Principles of Speech Communication
Literary Inquiry		
Introduction to Literature	ENG 103 ENG 104 ENG 105 ENG 106 ENG 107 ENG 108 ENG 208 ENG 209 ENG 220 ENG 250	American Literature American Literature Survey of English Literature Survey of English Literature Contemporary Lit 1900-1950 Contemporary Lit 1950-present Masterpieces of Western Civ. Masterpieces of Western Civ. Non-Western Lit. in Trans. Introduction to Shakespeare
Aesthetic Awareness		
One course (3 semester hours)	ART 101 ART 102 ART 103 ART 104 ART 105 ART 106 ART 111 ART 115 ART 116 ART 117 MUS 101 MUS 102 MUS 103 MUS 104 MUS 105 MUS 106	Drawing I Drawing II 2D Design 3D Design Painting I Painting II Ceramics I Intro to Ancient & Medieval Art Intro to Renaissance & Baroque Art Intro to Modern Art Exploration of Music Literature Exploration of American Music Evolution of Jazz Fundamentals of Music Theory of Music

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	THEA 101 Theory of Theatre Introduction to Theatre
Humanities/Fine Arts	
One course (3 semester hours) in foreign language, history, creative arts, or literature	Select one from the suggested literature, humanities/fine arts, history or any foreign language
Numerical Understanding	
One course (3 semester hours): must be an approved course at a level above Intermediate Algebra	Satisfied by the major
Scientific Inquiry	
One Course (3 semester hours)	ASTR 101 Descriptive Astronomy BIO 104 Biological Diversity BIO 105 Microbes and You BIO 107 Plants and Society BIO 125 Human Biology BIO 144 Introduction to Human Heredity BIO 146 Ecological Conservation BIO 151 General Biology I BIO 152 General Biology II CHEM 100 Fundamentals of Chemistry CHEM 101 General Chemistry I CHEM 102 General Chemistry II CHEM 104 Chemistry and Society CHEM 108 Elementary Organic Chemistry GEOG 111 Physical Geog – Weather/ Climate GEOG 112 Physical Geog – Landforms GEOL 101 Principles of Physical Geology PHYS 100 Basic Physics PHYS 101 General Physics I PHYS 102 General Physics II PHSCI 120 Physical Science
Numerical/Scientific/Computer Science Inquiry	
One course (3 semester hours) numerical science, scientific inquiry or computer science	Satisfied by the major

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Historical Understanding		
One course (3 semester hours)	HIST 103	History of the U.S. to 1865
	HIST 104	History of the U.S. 1865 to present
	HIST 105	History of Civilization I
	HIST 106	History of Civilization II
	HIST 107	World History to 1500
	HIST 108	World History since 1500
	HIST 230	History of the Middle East
	HIST 240	History of Latin America
	HIST 260	History of the Middle East
	HIST 290	History of Africa
Social Awareness		
Two courses (6 semester hours) each from a different discipline in psychology, economics, geography, sociology, political science or recreation administration	ANTH 101	Introduction to Anthropology
	ANTH 275	Cultural Anthropology
	ECON 103	Principles of Economics I (Macro)
	ECON 104	Principles of Economics II (Micro)
	GEOG 102	World Regional Geography
	GEOG 104	Intro to Economic Geography
	GEOG 106	Cultural Geography
	PSCI 101	American National Government
	PSCI 102	American State & Local Govt
	PSCI 103	Intro to Comparative Government
	PSYC 101	General Psychology
	PSYC 208	Social Psychology
	PSYC 210	Child & Adolescent Development
	SOC 101	Introduction to Sociology
	SOC 270	Marriage and Family
	SOC 280	Sociology of Social Problems
	SOC 290	Cultural Diversity in America
Philosophical Inquiry		
Two courses (6 semester hours): First course: Intro to Philosophy	PHIL 101	Introduction to Philosophy
	PHIL 102	History of Philosophy
Second course:	PHIL 102	History of Philosophy
	PHIL 103	Introduction to Ethics
	PHIL 104	Introduction to Logic
Religious Foundations		

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Two courses (6 semester hours): First course: Introduction to Theology Second course:	Must be taken at USF SOC 240 Intro to Comparative Religion
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Mathematics Major	
MATH 175 Statistics	BUS 205 Business Statistics
MATH 181 Calculus with Analytic Geometry I	MATH 170 Calculus with Analytic Geometry
MATH 182 Calculus with Analytic Geometry II	MATH 171 Calculus with Analytic Geometry II
MATH 271 Calculus III	MATH 172 Calculus with Analytic Geometry III
MATH 275 Linear Algebra	MATH 210 Linear Algebra
MATH 280 Differential Equations	MATH 220 Differential Equations and Orthogonal Functions
MATH 326 Discrete Mathematics	Must be taken at USF
MATH 331 Mathematical Statistics I	Must be taken at USF
MATH 351 College Geometry	Must be taken at USF
MATH 371 Introduction to Analysis	Must be taken at USF
MATH 375 Abstract Algebra I	Must be taken at USF
MATH 391 Junior Seminar	
MATH 490 Senior Seminar	Must be taken at USF
MATH Elective (300-400 level)	Must be taken at USF
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Mathematics with Computer Science	
Required Mathematics Courses:	
MATH 175 Statistics	BUS 205 Business Statistics
MATH 181 Calculus with Analytic Geometry I	MATH 170 Calculus with Analytic Geometry
MATH 182 Calculus with Analytic Geometry II	MATH 171 Calculus with Analytic Geometry II
MATH 271 Calculus III	MATH 172 Calculus with Analytic Geometry III
MATH 275 Linear Algebra	MATH 210 Linear Algebra
MATH 280 Differential Equations	
MATH 326 Discrete Mathematics	Must be taken at USF
MATH 365 Operations Research	Must be taken at USF
MATH 380 Numerical Analysis	Must be taken at USF

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Required Computer Science Courses:	
COMP 135 Introduction to Information Technology	CIS 122 OR waived for transfer students with 6 s.h. or more of CS courses
COMP 140 Computer Science I	CIS 236 Programming in C
COMP 150 Computer Science II	CIS 246 Advanced C using C++
COMP 200 Microcomputer Systems	CIS 276 Advanced PC Troubleshooting and Asse
COMP 253 Java	CIS 261 Java Programming
COMP 254 Advanced data Structures	Must be taken at USF
COMP 335 Operating systems	Must be taken at USF
COMP 360 Assembler	Must be taken at USF
COMP 400 Database Management	Must be taken at USF
COMP/MATH Elective (300-400 level)	Must be taken at USF
COMP/MATH Elective (300-400 level)	Must be taken at USF
Capstone Course	
COMP 480 Senior Project OR	Must be taken at USF
MATH 391 Junior Seminar	Must be taken at USF
MATH 490 Senior Seminar	Must be taken at USF

Mathematics with Actuarial Science	
MATH 175 Statistics	BUS 205 Business Statistics
MATH 181 Calculus with Analytic Geometry I	MATH 170 Calculus with Analytic Geometry
MATH 182 Calculus with Analytic Geometry II	MATH 171 Calculus with Analytic Geometry II
MATH 271 Calculus III	MATH 172 Calculus with Analytic Geometry III
MATH 275 Linear Algebra	MATH 210 Linear Algebra
MATH 280 Differential Equations	MATH 220 Differential Equations and Orthogonal Functions
MATH 290 Theory of Interest	Must be taken at USF
MATH 331 Mathematical Statistics I	Must be taken at USF
MATH 332 Mathematical Statistics II	Must be taken at USF
MATH 365 Operations Research	Must be taken at USF
MATH 370 Applied Regression Analysis	Must be taken at USF
MATH 380 Numerical Analysis	Must be taken at USF
MATH 391 Junior Seminar	Must be taken at USF
MATH 490 Senior Seminar	Must be taken at USF

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Required Support Courses:	
ACCT 125 Financial Accounting	ACCY 101 Accounting I
ACCT 126 Managerial Accounting	ACCY 102 Accounting II
COMP 140 Computer Science I	CIS 236 Programming in C
ECON 101 Principles of Macroeconomics	ECON 103 Principles of Economics I (Macroeconomics)
ECON 102 Principles of Microeconomics	ECON 104 Principles of Economics II (Microeconomics)
ECON 211 Intermediate Macroeconomics	Must be taken at USF
ECON 212 Intermediate Microeconomics	Must be taken at USF
FINC 242 Principles of Finance	FIN 201 Principles of Corporation Finance
FINC 340 Principles of Insurance	Must be taken at USF
FINC 345 Investments	Must be taken at USF
FINC 358 Capital Budgeting	Must be taken at USF

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