



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

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

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Two courses (6 semester hours): First course: Introduction to Theology	Must be taken at USF
Second course:	SOC 240 Intro to Comparative Religion

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
MATH Elective (300-400 level)	Must be taken at USF

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

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MATH 380 Numerical Analysis	Must be taken at USF
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 Assembly
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
Required Support Courses:	

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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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