



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 COMM 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	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

Bigger thinking. Brighter purpose.



	MUS 106 THEA 101	Theory of Music 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 BIO 104 BIO 105 BIO 107 BIO 125 BIO 144 BIO 146 BIO 151 BIO 152 CHEM 100 CHEM 101 CHEM 102 CHEM 104 CHEM 108 GEOG 111 GEOG 112 GEOL 101 PHYS 100 PHYS 101 PHYS 102 PHSCI 120	Descriptive Astronomy Biological Diversity Microbes and You Plants and Society Human Biology Introduction to Human Heredity Ecological Conservation General Biology I General Biology II Fundamentals of Chemistry General Chemistry I General Chemistry II Chemistry and Society Elementary Organic Chemistry Physical Geog - Weather/Climate Physical Geog - Landforms Principles of Physical Geology Basic Physics General Physics I General Physics II Physical Science

Bigger thinking. Brighter purpose.



Numerical/Scientific/ Computer Science Inquiry	
One course (3 semester hours) numerical science, scientific inquiry or computer science	Satisfied by the major
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 HIST 105 present HIST 106 History of Civilization I HIST 107 History of Civilization II HIST 108 World History to 1500 HIST 230 World History since 1500 HIST 240 History of the Middle East HIST 260 History of Latin America HIST 290 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 Introduction to Anthropology ANTH 275 Cultural Anthropology ECON 103 Principles of Economics I ECON 104 (Macro) GEOG Principles of Economics II 102 (Micro) GEOG World Regional Geography 104 Intro to Economic Geography GEOG Cultural Geography 106 American National PSCI 101 Government PSCI 102 American State & Local Govt PSCI 103 Intro to Comparative PSYC 101 Government PSYC 208 General Psychology PSYC 210 Social Psychology SOC 101 Child & Adolescent SOC 270 Development SOC 280 Introduction to Sociology SOC 290 Marriage and Family

Bigger thinking. Brighter purpose.



	Sociology of Social Problems 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	
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

Bigger thinking. Brighter purpose.



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
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	MATH 170 Calculus with Analytic

Bigger thinking. Brighter purpose.



Geometry I	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:	
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

Bigger thinking. Brighter purpose.



Bigger thinking. Brighter purpose.