

Advisement and Transfer Services

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**Northwest – Kansas City | Johnson County Community College
B.S. Computer Science: Mobile Computing Emphasis
Transfer Guide**

Important Notes

- An **Associate of Arts** degree may be able to waive some CORE requirements at Northwest. Seek advisement for proper course selection. **Digital Literacy, Global Experiences, and any course listed as required cannot be waived by a prior A.A. degree.**
- Johnson County Community College – Kansas City courses marked with (*) are listed under two different CORE categories. They may transfer to satisfy only one of Northwest's CORE areas, not both.
- This guide is for the 2016-2017 undergraduate academic catalog. As new catalogs come into effect at Northwest, degree requirements may change. Students will automatically be placed under the catalog of initial enrollment at Northwest, or may choose to move forward catalog years. However, transfer students are eligible to graduate within the Northwest catalog upon which they were initially enrolled at the community college if they had been continuously enrolled and had not sat out for more than 18 months.
 - **Returning students** who are accepted to return to Northwest will be automatically placed under the catalog of initial re-enrollment at Northwest. If a student wishes to return to the catalog they were under while previously attending Northwest, please contact the Registrar's Office at REGISTRAR@nwmissouri.edu.

Contact Us!

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**CORE Requirements
(48-52 credit hours)**

Course Number	Course Name	Course Number	Course Name
Critical Northwest CORE Courses (must be completed prior to beginning at NWKC)			
CSIS 44-101	Foundations of Computing (required)	CIS 124 or BOT 106	Intro to Computer Concepts & Applications (required) or Intro to Business Computer Applications (required) **Neither of these courses directly equates to CSIS 44-101, but the Computer Science department will do a substitution to fulfil this CORE requirement in degree audit.
MATH 17-117 or MATH 17-118	Precalculus (for Math Option A) (required) or College Algebra (for Math Option B) (required)	MATH 173 or MATH 171	Precalculus (for Math Option A) (required) or College Algebra (for Math Option B) (required)
COM 29-102	Fundamentals of Oral Communication	SPD 121 or SPD 125 or SPD 120	Public Speaking or Personal Communication or Interpersonal Communication or
ENGL 10-111	Composition I: Academic Literacies	ENGL 121	Composition I
ENGL 10-112	Composition II: Writing as Engagement	ENGL 122	Composition II
HIST 33-155 or HIST 33-156	US History to 1877 or US History since 1877	HIST 140 or HIST 141	US History to 1877 or US History since 1877
POLS 34-102	Introduction to American Government & Politics	POLS 124	American National Government
Global Experiences (choose 1) **Cannot be waived by AA degree.			
LANG 14-131 LANG 14-132 LANG 14-141 LANG 14-142 LANG 14-151 LANG 14-161 LANG 14-162 MUS 19-280 HUM 26-104 HUM 26-162 COM 29-225 POLS 34-105 GEOG 32-102	French: Communication and Culture I French: Communication and Culture II Spanish: Communication and Culture I Spanish: Communication and Culture II Intro. to American Sign Language & Deaf Culture Russian: Communication and Culture I Russian: Communication and Culture II World Music The Eastern World Comparative Religions Intercultural Communication The African World Peoples and Cultures of the World	FL 140 FL 141 FL 130 FL 131 ASL 120 or FL 180 FL 150 FL 151 MUS 126 HIST 135 REL 120 SPD 180 HIST 132 ANTH 130	Elementary French I Elementary French II Elementary Spanish I Elementary Spanish II Elementary American Sign Language I Elementary Russian I Elementary Russian II Introduction to World Music* Eastern Civilization* Exploring World Religions* Intercultural Communication History of Africa World Cultures*
CORE 90-206 ENGL 10-224 ENGL 10-226 MMED 20-221 REC 45-211 EDUC 61-252	Other options: Interdisciplinary Engagement: Global Experiences Multiethnic Literature of the US Modern and Contemporary World Literature Ethnographic Film Study Leisure and Society Pluralism in a Multicultural Society	ADJM 223 ANTH 125 ANTH 134 ANTH 135 ANTH 142 ANTH 150 ANTH 165 ARTH 180 ARTH 186 BIOL 132 BUS 235 ENGL 215 ENGL 217 ENGL 244 FL 110 FL 116 FL 117 FL 120 FL 121 FL 123 FL 124 FL 155 FL 156 FL 160 FL 161 FL 165 FL 166 FL 170 FL 171 FL 175 FL 176 GEOS 145 GIST 250 HIST 129 HIST 130 HIST 137 HIST 150 HIST 151 HIST 152	Other options: The World of Crime Cultural Anthropology* Native Americans American Indian Artistic Tradition World Prehistory* Peoples & Cultures of Mesoamerica Linguistic Anthropology* Art History: Ancient to Renaissance* Art History: Introduction to Asian Art Intro to Public Health Intro to International Business US Latino & Latina Literature* Literature by Women* Literature of American Popular Music Elementary Ancient Greek Elementary Latin I Elementary Latin II Elementary German I Elementary German II Elementary Hebrew I Elementary Hebrew II Elementary Arabic I Elementary Arabic II Elementary Italian I Elementary Italian II Elementary Chinese I Elementary Chinese II Elementary Japanese I Elementary Japanese II Elementary Brazilian Portuguese I Elementary Portuguese II World Regional Geography* Intro to Globalization Early Modern Europe 1500-1789* European History Since 1789* African American Studies* Islam: Religion Civilization World History I: Traditional World* World History II: Modern World*

		HIST 160 HIST 162 HIST 167 HIST 180 HIST 195 HUM 137 HUM 145 HUM 146 HUM 150 HUM 156 HUM 165 HUM 167 INTR 145 JOUR 220 PHIL 142 POLS 132 POLS 135 POLS 200 PSYC 205 PSYC 220 REL 125 REL 126 SOC 125 SOC 165 WGS 201 WGS 220	Modern Russian History* Modern Latin America* Intro to History: Japan North American Indian History History of the Middle East Intro to Russian Culture Intro to World Humanities I* Intro to World Humanities II* Islam: Religion Civilization Contemporary Approaches to World Mythology Intro to Chinese Culture* Intro to Japanese Culture* Intro to the Deaf Community International Media History of Asian Philosophy Intro to Comparative Government International Relations Model United Nations Human Sexuality Social Psychology Religions of the East* Religions of the West* Social Problems* Contemporary Chinese Society Global Women's Studies* The Many Women of Islam
Western Experiences (choose 1)			
HUM 26-102 HUM 26-103 PHIL 39-171 PHIL 39-274 PHIL 39-276 PHIL 39-275 COM 29-235	Western Civ I: Ancient World to 1500 Western Civ II: 1500 to Present Intro to Philosophy Historical Ethics Bio-Medical Ethics Other Options: Professional Ethics Intro to Classical Rhetoric	HIST 125 HIST 126 PHIL 121 PHIL 143 PHIL 155/ BIOL 155 PHIL 124 PHIL 138 PHIL 154 PHIL 176 HIST 128 HIST 129 HIST 130 HIST 135 HIST 137 HIST 151 HIST 152 HIST 160 HIST 162 HUM 122 HUM 145 HUM 146 HUM 155 HUM 165 HUM 167 REL 120 REL 125 REL 126	Western Civilization: Ancient World to Renaissance Western Civilization: Scientific Rev. to Modern Age Introduction to Philosophy Ethics Bioethics Other options: Logic & Critical Thinking Business Ethics History of Ancient Philosophy Philosophy of Religion Medieval History Early Modern Europe 1500-1789* European History Since 1789* Eastern Civilization* African American Studies* World History I: Traditional World* World History II: Modern World* Modern Russian History* Modern Latin America* Intro to Humanities* Intro to World Humanities I* Intro to World Humanities II* Classical Mythology* Intro to Chinese Culture* Intro to Japanese Culture* Exploring World Religions* Religions of the East* Religions of the West*
Literature (choose 1)			
ENGL 10-220	Intro to Literature	ENGL 130 ENGL 215 ENGL 217 ENGL 227 ENGL 230 ENGL 235 ENGL 236 ENGL 237 ENGL 243 ENGL 246 ENGL 247 ENGL 250 ENGL 254 HUM 155	Introduction to Literature Other options: US Latino & Latina Literature* Literature by Women* Introduction to Poetry Introduction to Fiction Drama as Literature British Literature I British Literature II Literature as Science Fiction American Literature I American Literature II World Masterpieces Masterpieces in Cinema Classical Mythology*
Fine Arts (choose 1)			
ART 13-109 ART 13-111 MUS 19-201 THEA 43-101 ART 13-102 MUS 19-202 MUS 19-222 CORE 90-211	Survey of Art I: Prehistory through Medieval Art Survey of Art II: Renaissance to the Present The Enjoyment of Music Theatre Appreciation Other options: Art Appreciation Jazz Appreciation American Popular Music Interdisciplinary Engagement: Fine Arts	ARTH 180 ARTH 182 MUS 121 THEA 120 ARTH 184 ARTH 188 HUM 122 JOUR 120 MUS 125 MUS 126	Art History: Ancient to Renaissance* Art History: Renaissance to Modern Introduction to Music Listening Introduction to Theater Other options: Art History: 20 th Century History of Photography Introduction to Humanities* Mass Media and Society Introduction to Jazz Listening Introduction to World Music*

Social and Behavioral Sciences (choose 2 courses, from 2 different groups)			
ECON 52-130 ECON 52-150	Economics Survey of Economics Principles of Macroeconomics	ECON 132 ECON 230	Economics Survey of Economics Economics I
PSYC 08-103 PSYC 08-299	Psychology General Psychology Educational Psychology (<i>required for all ed majors</i>)	PSYC 130 PSYC 225	Psychology Intro to Psychology Educational Psychology (<i>required for all education majors</i>)
GEOG 32-101	Geography Intro to Geography	GEOS 145	Geography World Regional Geography*
SOC 35-101	Sociology General Sociology	SOC 122	Sociology Intro to Sociology
SOC 35-108	Anthropology General Anthropology	ANTH 126	Anthropology Physical Anthropology
AGRI 03-102	Other options: Introductory Agricultural Economics	ANTH 125 ANTH 130 ANTH 142 ANTH 165 ECON 231 PSYC 121 SOC 125 SOC 131 WGS 220	Other options: Cultural Anthropology* World Cultures* World Prehistory* Linguistic Anthropology* Economics II Applied Psychology Social Problems* Sociology of Families Global Women's Studies*
Life Sciences (choose 1 with corresponding lab)			
BIOL 04-102/103 BIOL 04-106/107	General Biology & Lab Principles of Biology & Lab	BIOL 121 BIOL 135	Introductory Biology for Non-Majors Principles of Cellular/Molecular Biology
AGRI 03-130	Other options: Plant Science	BIOL 125 BIOL 127 BIOL 130/131 BIOL 140 BIOL 144	Other options: General Botany General Zoology Environmental Science & Lab Human Anatomy Human Anatomy & Physiology
Physical Sciences (choose 1 with corresponding lab)			
CHEM 24-112/113 CHEM 24-114/115 PHYS 25-110/111 PHYS 25-112/113 PHYS 25-120/121 GEOL 27-110/111 GEOL 27-114/115 PHSC 40-102/103 PHSC 40-122/123	General Chemistry & Lab General Chemistry I & Lab General Physics I & Lab General Physics II & Lab Fundamentals of Classical Physics I & Lab General Geology & Lab General Earth Science & Lab The Physical Sciences & Lab Descriptive Astronomy & Lab	CHEM 122 CHEM 124/125 PHYS 130 PHYS 131 PHYS 220 GEOS 130 GEOS 140/141 PSCI 120 ASTR 122	Principles of Chemistry General Chemistry I & Lab College Physics I College Physics II Engineering Physics I General Geology Physical Geography & Lab Physical Science Astronomy
		CHEM 120	Other options: Chemistry in Society

**B.S. Computer Science – Mobile Computing Emphasis
(68-71 credit hours)**

Critical Northwest CORE Courses (9 credit hours)

(must be completed prior to beginning at NWKC)

CSIS 44-141	Computer Programming I		Offered during the summer session at Northwest.
CSIS 44-241	Computer Programming II		Offered during the summer session at Northwest.
CSIS 44-356	Network Fundamentals		No equivalent course. See NWKC advisor.

Science Options (8-10 hours) – Choose one option (A, B or C)

The following course may NOT be used to satisfy any Northwest CORE requirement.

PHYS 25-110/111 & PHYS 25-112/113	Option A General Physics I & Lab and General Physics II & Lab	PHYS 130 & PHYS 131	Option A College Physics I and College Physics II
	Option B Fundamentals of Classical Physics I & Lab and Fundamentals of Classical Physics II & Lab		Option B Engineering Physics I and Engineering Physics II
CHEM 24-114/115 & CHEM 24-116/117	Option C General Chemistry I & Lab and General Chemistry II & lab	CHEM 124/125 & CHEM 131/132	Option C General Chemistry I and Lab and General Chemistry II and Lab

Math Options (9-10 additional hours) – Choose one option (A or B)

Math Option A

MATH 17-117	Precalculus (Required Northwest Core course)	MATH 173	Precalculus (Required Northwest Core Course)
MATH 17-120	Calculus I	MATH 241	Calculus I
MATH 17-215	Discrete Mathematics	MATH 175	Discrete Mathematics and Its Applications <i>We recommend taking this course through Northwest.</i>
MATH 17-114	General Statistics	MATH 181	Statistics <i>We recommend taking this course through Northwest.</i>

Math Option B

MATH 17-118	College Algebra (Required Northwest Core course)	MATH 171	College Algebra (Required Northwest Core Course)
MATH 17-114	General Statistics	MATH 181	Statistics <i>We recommend taking this course through Northwest.</i>
MATH 17-215	Discrete Mathematics	MATH 175	Discrete Mathematics and Its Applications <i>We recommend taking this course through Northwest.</i>
MATH 17-316	Linear Statistical Models I		Must be taken at Northwest

Required Courses (42 credit hours)

CSIS 44-242	Data Structures	Must be taken at Northwest
CSIS 44-296	Professional Development Seminar	Must be taken at Northwest
CSIS 44-345	Computer Organization	Must be taken at Northwest
CSIS 44-349	A Survey of Algorithms	Must be taken at Northwest
CSIS 44-460	Database Systems	Must be taken at Northwest
CSIS 44-525	Theory & Implementation of Prog Lang	Must be taken at Northwest
CSIS 44-550	Operating Systems	Must be taken at Northwest
CSIS 44-561	Software Engineering Principles	Must be taken at Northwest
CSIS 44-562	Software Engineering Practice	Must be taken at Northwest
CSIS 44-351	Foundations of Game Development	Must be taken at Northwest
CSIS 44-443	Mobile Computing – iOS	Must be taken at Northwest
CSIS 44-444	Mobile Computing – Android	Must be taken at Northwest
CSIS 44-451	Advanced Topics in Mobile Computing	Must be taken at Northwest
CSIS 44-563	Developing Web Applications & Services	Must be taken at Northwest